

2018



Southern Region Annual HIV Epidemiological Profile

Data reported through June 30, 2019



Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Prevention and Health Services Bureau
Prevention and Health Promotion Administration
<http://phpa.health.maryland.gov/OIDEOR/CHSE>
1-800-358-9001

Acknowledgements

This report is published by The Center for HIV Surveillance, Epidemiology and Evaluation (CHSEE). This report would not have been possible without the cooperation, dedication and hard work of HIV health care providers, local health departments, community groups, researchers, and members of the community.

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Suggested Citation

Southern Region Annual HIV Epidemiological Profile 2018. Center for HIV Surveillance, Epidemiology and Evaluation, Maryland Department of Health, Baltimore, MD. 2019.

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Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that people living with HIV be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Physicians are required to report infants born to mothers living with HIV within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phone numbers, are available on our website: <https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx>

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for people that have been diagnosed with HIV by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2018. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of data. Data are only available for people receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

HIV Incidence: The most recent Centers for Disease Control and Prevention (CDC) estimate of the number of people living with undiagnosed HIV infection is 14.2 percent for the United States and 13.8 percent for Maryland in 2016. Using the CDC CD4 depletion model on Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 11.6 percent in 2017.

Maryland Residence: This epidemiological profile provides estimates of people living with diagnosed HIV in Maryland by their residence as of December 31, 2018. Residence at diagnosis and age at diagnosis are used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted to people for which there is a case report form or laboratory test reported since January 1, 2009. Restricting address data to recent years

presents the most accurate data available and helps to account for people that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes people that may still be residents of Maryland but have not received any HIV care during the most recent ten and a half years. In addition, residence is dynamic and people living with diagnosed HIV may have resided at multiple addresses that cannot all be represented in single time point estimates.

Maryland Residence – Correctional Facilities: People living with diagnosed HIV who were reported to be residing in a state or federal prison as of December 31, 2018 will be presented in the Maryland epidemiological profile only. For surveillance purposes, pre- or post-incarceration residential addresses are used for people living with diagnosed HIV who were incarcerated in local jails and detention centers. Individuals diagnosed or previously identified as residing in a correctional facility, whose most recent reported residential address indicates they were not residing in a state/federal correctional facility as of December 31, 2018, are included with estimates of people who are not incarcerated. The movement of persons between Maryland correctional facilities is not reflected in this report.

Gender Identity: This epidemiological profile describes gender expansive people that have been diagnosed with HIV by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2018. Historically, it has been difficult to fully present data by gender identity. Data on gender expansive people has been limited in the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS). No reliable system exists for collecting or reporting gender identity and some agencies do not collect or have complete data on gender identity. This report is likely underreporting the number gender expansive people living with diagnosed HIV because of challenges in accurately identifying and reporting gender identity in HIV surveillance.

Race/Ethnicity: The completeness of reporting for race/ethnicity is variable in surveillance data. Definitions of race/ethnicity categories may vary across agencies and some agencies do not collect or have complete data on race/ethnicity. This report may be overreporting the number of Multiracial people living with diagnosed HIV because of challenges in accurately identifying and reporting race/ethnicity in HIV surveillance.

Foreign-Born Maryland Residents: The completeness of reporting a person's country of birth is variable in surveillance data. Not all agencies collect or have complete data on nativity. In addition, some individuals may immigrate to the U.S. with HIV. HIV testing data from other countries is often unavailable for these people; therefore, they are counted as a new diagnosis following their first HIV related lab test in the United States, even if they were first diagnosed elsewhere.

Mortality: Mortality (death) data is presented in this epidemiological profile. Caution should be exercised when interpreting mortality estimates for recent years due to delays in reporting.

Viral Suppression: In this epidemiological profile, viral suppression is defined as the most recent viral load measured in the specified year of less than 200 copies per milliliter. Estimates of viral suppression among people living with diagnosed HIV are inclusive of people diagnosed in the specified year; therefore, they may not have had sufficient time to engage in HIV care and/or achieve viral suppression.

Changes in Terminology

The terminology for HIV and AIDS surveillance data was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and People Living with Diagnosed HIV replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and previously diagnosed individuals as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag, and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the

Reported HIV Diagnoses for 2018 are the total number of people diagnosed with HIV from January 1, 2018 to December 31, 2018, as reported by name through June 30, 2019.

To calculate the number of people living with diagnosed HIV, we count all reported diagnoses from the beginning of the epidemic (all new diagnoses each year) and subtract all reported deaths. For example, the total people living with diagnosed HIV on December 31, 2018 are the total reported HIV diagnoses not reported to have died as of December 31, 2018 as reported by name through June 30, 2019.

Stages of HIV Surveillance

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can contract HIV but never be screened for HIV and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the health department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

An instance of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9] but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV transmission [time point 1].

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An adult living with diagnosed HIV is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ is less than 14 percent. Viral load tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of viral load, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and viral load levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's eHARS, as of June 30, 2019.

Population data by sex, age, and race/ethnicity are from the July 1, 2018 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2017 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of people living with diagnosed HIV, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 people.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Exposure/risk data is not suppressed due to statistical adjustment resulting in the reporting of estimated or probable risk.

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who report a history of sexual contact with other men and report injection drug use constitutes a separate transmission category.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Male-to-male Sexual Contact (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Heterosexual Contact (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to be HIV positive or at increased risk for HIV transmission. Risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue, and artificial insemination.

Perinatal Exposure: Any baby born to a woman living with diagnosed HIV.

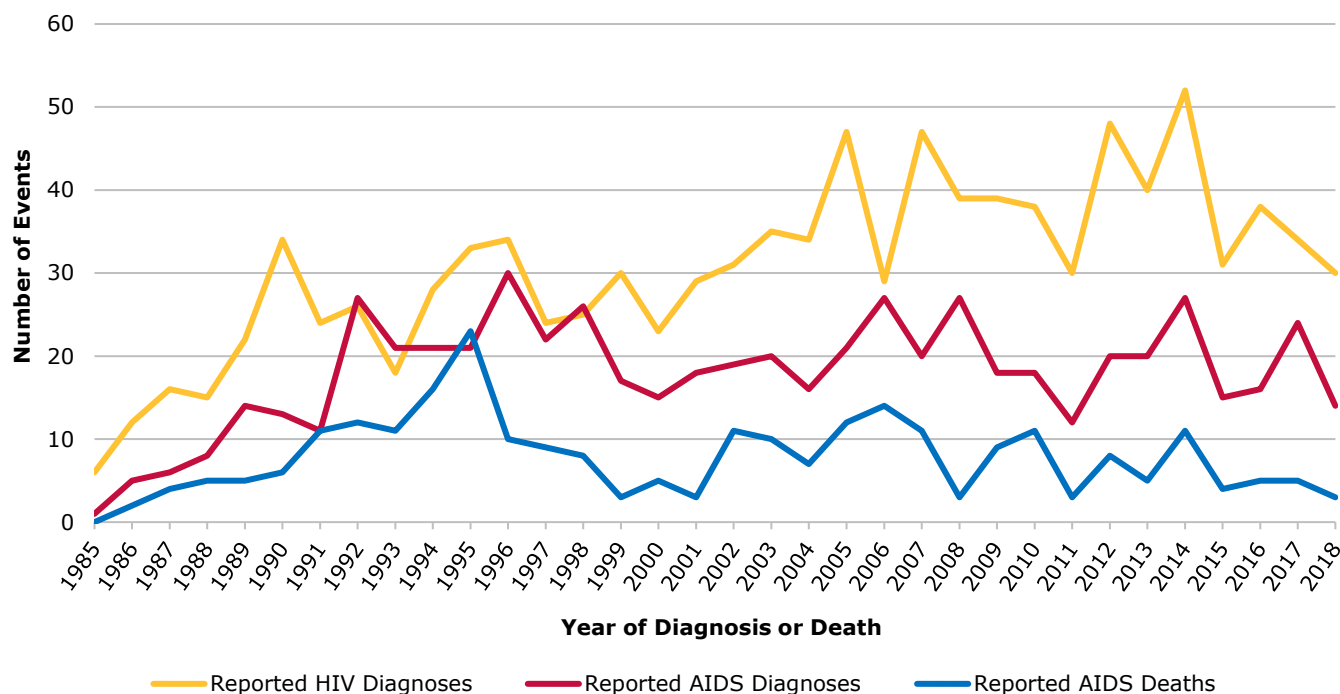
Other Exposure: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing in some instances. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual person as well as data in aggregate from other people living with diagnosed HIV in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates. Perinatal transmission and other exposure categories are never estimated or adjusted and depict the reported exposure category.

Section II – Trends 1985-2018

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, Among Residents at Diagnosis, 1985-2018, Reported through June 30, 2019

People Diagnosed with HIV (Reported HIV Diagnoses) by Year of HIV Diagnosis, People Diagnosed with HIV with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and People Diagnosed with HIV with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2018, as Reported through June 30, 2019

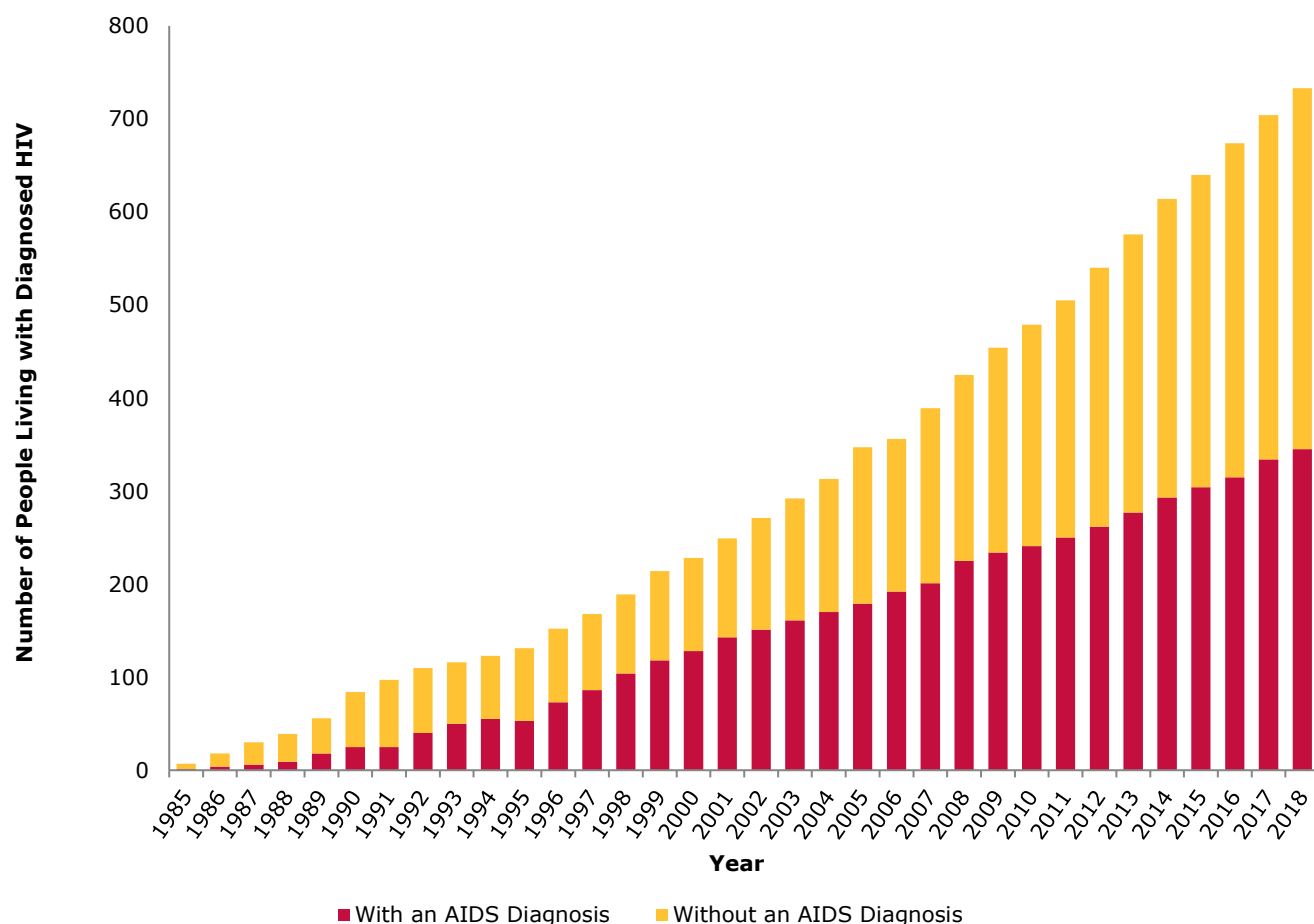


Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	2	1	1	2002	31	19	11
1985	6	1	0	2003	35	20	10
1986	12	5	2	2004	34	16	7
1987	16	6	4	2005	47	21	12
1988	15	8	5	2006	29	27	14
1989	22	14	5	2007	47	20	11
1990	34	13	6	2008	39	27	3
1991	24	11	11	2009	39	18	9
1992	26	27	12	2010	38	18	11
1993	18	21	11	2011	30	12	3
1994	28	21	16	2012	48	20	8
1995	33	21	23	2013	40	20	5
1996	34	30	10	2014	52	27	11
1997	24	22	9	2015	31	15	4
1998	25	26	8	2016	38	16	5
1999	30	17	3	2017*	34	24	5
2000	23	15	5	2018*	30	14	3
2001	29	18	3	Total	1,043	611	266

*2017-2018 reported AIDS deaths are preliminary

Figure 2 – Trends in People Living with Diagnosed HIV, Among Residents at Diagnosis, 1985-2018, Reported through June 30, 2019

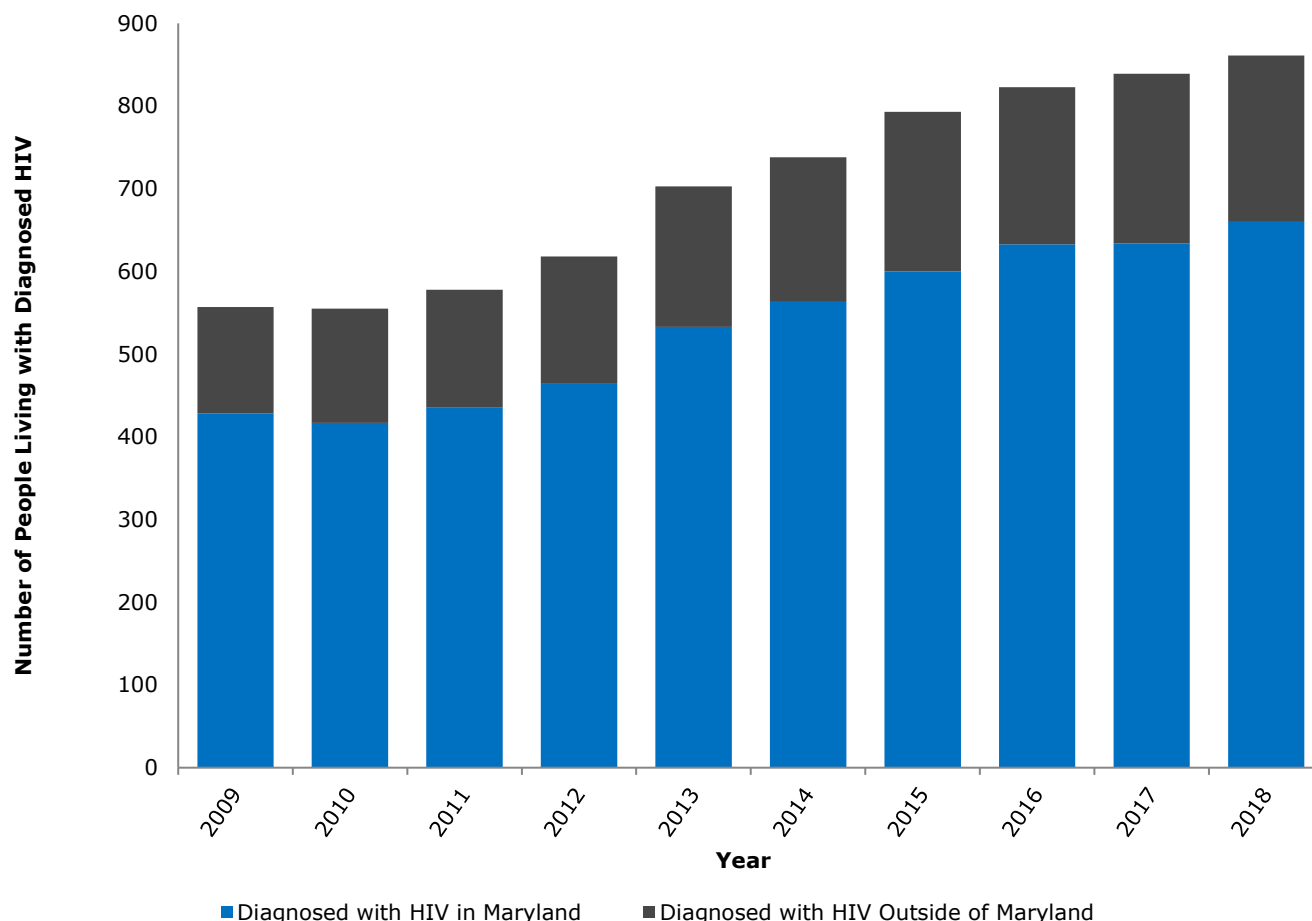
People Living with Diagnosed HIV and Not Reported to have Died as of December 31st of Each Year (People Living with Diagnosed HIV without an AIDS Diagnosis, People Living with Diagnosed HIV with an AIDS Diagnosis, and Total People Living with Diagnosed HIV) from 1985 through 2018, as Reported through June 30, 2019



People Living with Diagnosed HIV				People Living with Diagnosed HIV			
Year	without an AIDS Diagnosis	with an AIDS Diagnosis	Total	Year	without an AIDS Diagnosis	with an AIDS Diagnosis	Total
1985	6	1	7	2002	120	151	271
1986	14	4	18	2003	131	161	292
1987	24	6	30	2004	143	170	313
1988	30	9	39	2005	168	179	347
1989	38	18	56	2006	164	192	356
1990	59	25	84	2007	188	201	389
1991	72	25	97	2008	200	225	425
1992	70	40	110	2009	220	234	454
1993	66	50	116	2010	238	241	479
1994	68	55	123	2011	255	250	505
1995	78	53	131	2012	278	262	540
1996	79	73	152	2013	299	277	576
1997	82	86	168	2014	321	293	614
1998	85	104	189	2015	336	304	640
1999	96	118	214	2016	359	315	674
2000	100	128	228	2017	370	334	704
2001	106	143	249	2018	388	345	733

Figure 3 – Trends in People Aged 13+ Living with Diagnosed HIV, Among Current Residents, 2009-2018, Reported through June 30, 2019

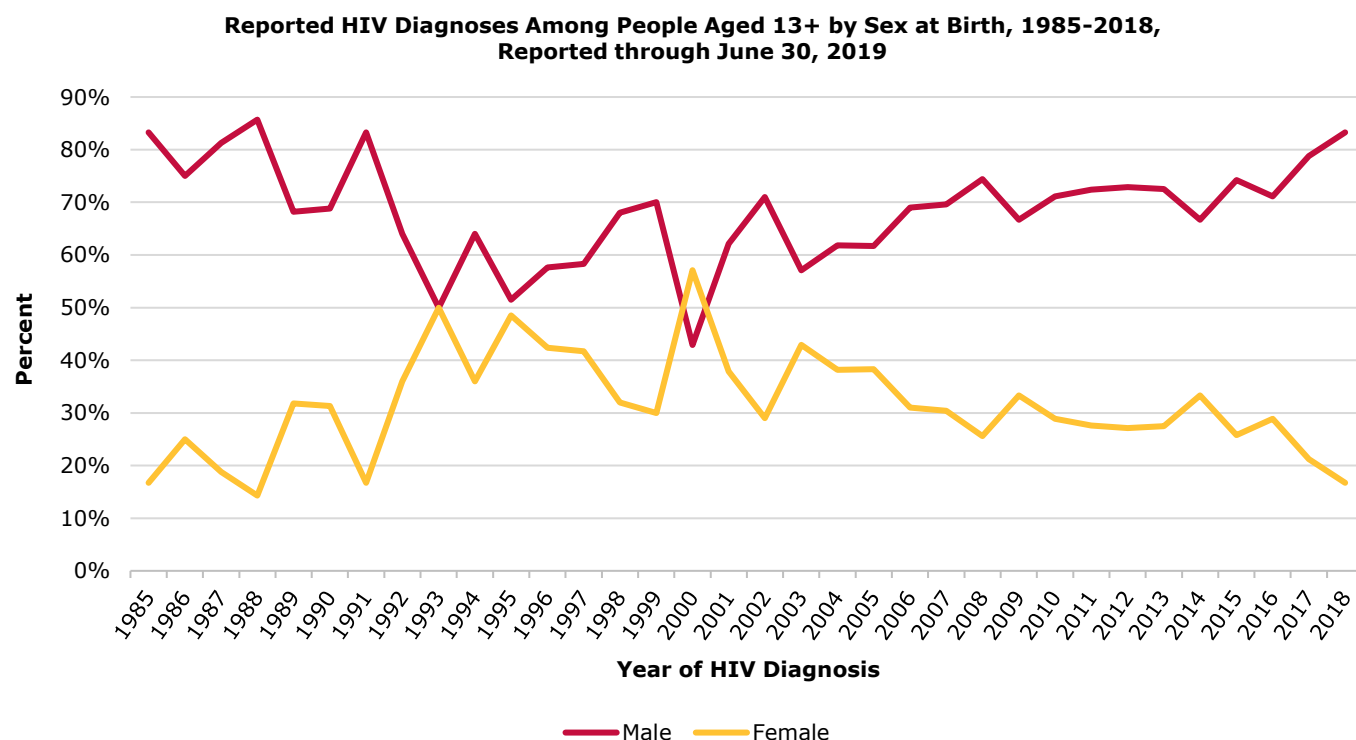
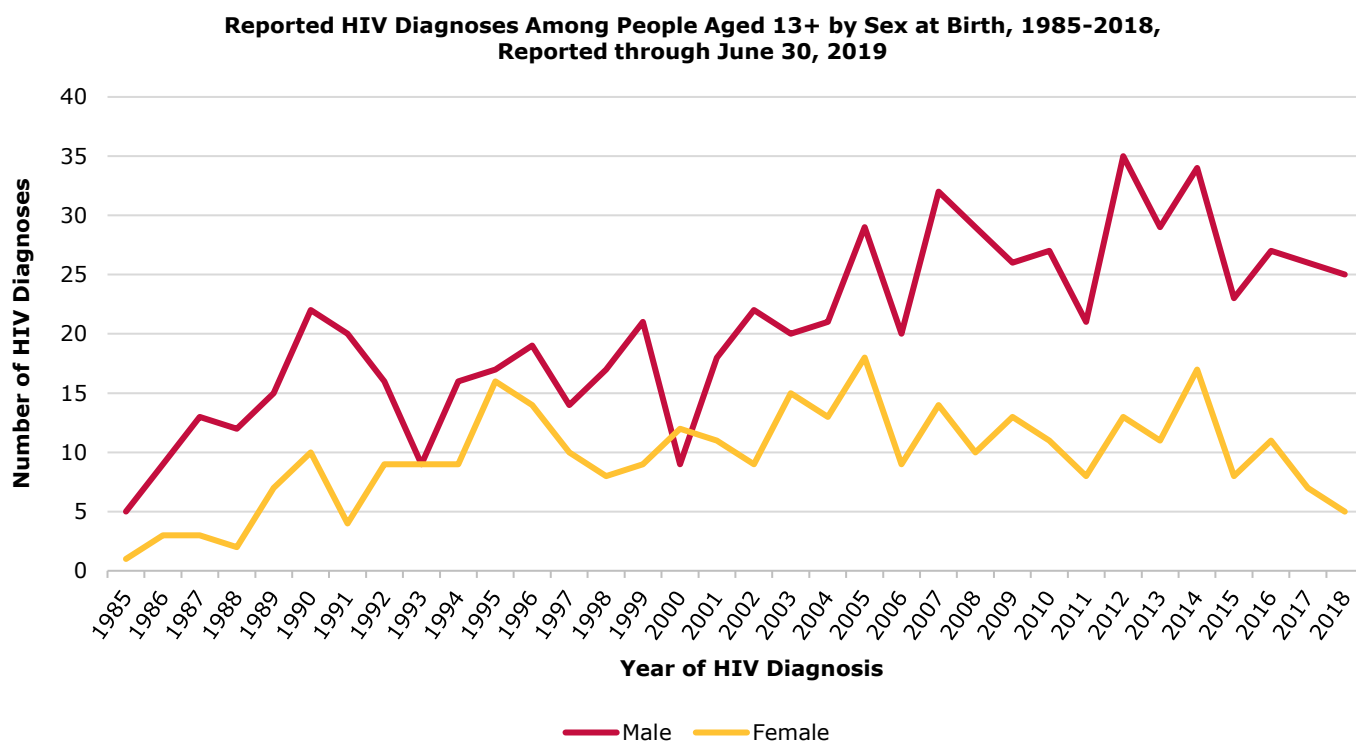
People Living with Diagnosed HIV in Southern Region and Not Reported to have Died as of December 31st of Each Year from 2009 through 2018, as Reported through June 30, 2019



Year	Population Age 13+	Southern Region Residents Aged 13+ as of December 31st of the Specified Year			
		Diagnosed with HIV in Maryland	Diagnosed with HIV Outside of Maryland	Total	Rate
2009	274,508	428	129	557	202.9
2010	279,788	417	138	555	198.4
2011	284,201	436	142	578	203.4
2012	287,690	464	154	618	214.8
2013	291,217	533	170	703	241.4
2014	293,982	563	175	738	251.0
2015	296,472	600	193	793	267.5
2016	299,351	633	190	823	274.9
2017	302,100	634	205	839	277.7
2018	305,125	660	201	861	282.2

Figure 4 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Sex at Birth, 1985-2018, Reported through June 30, 2019

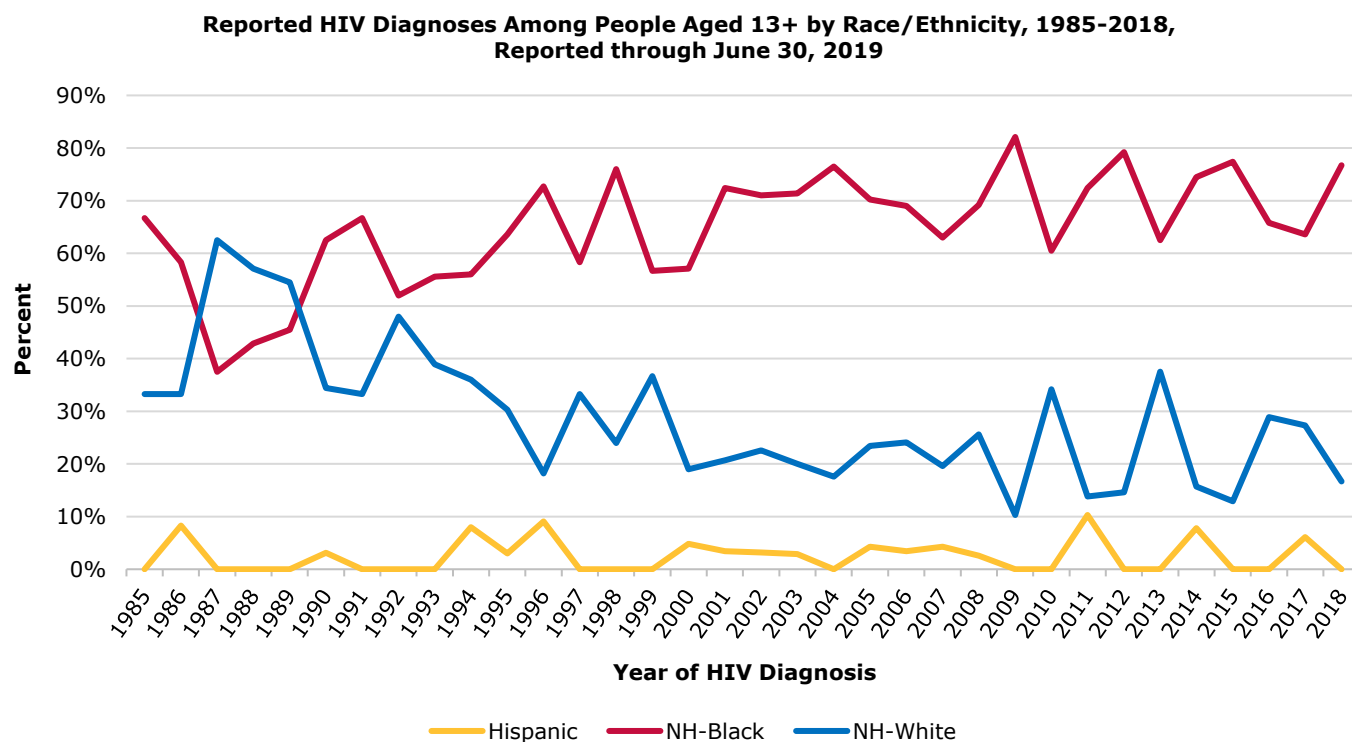
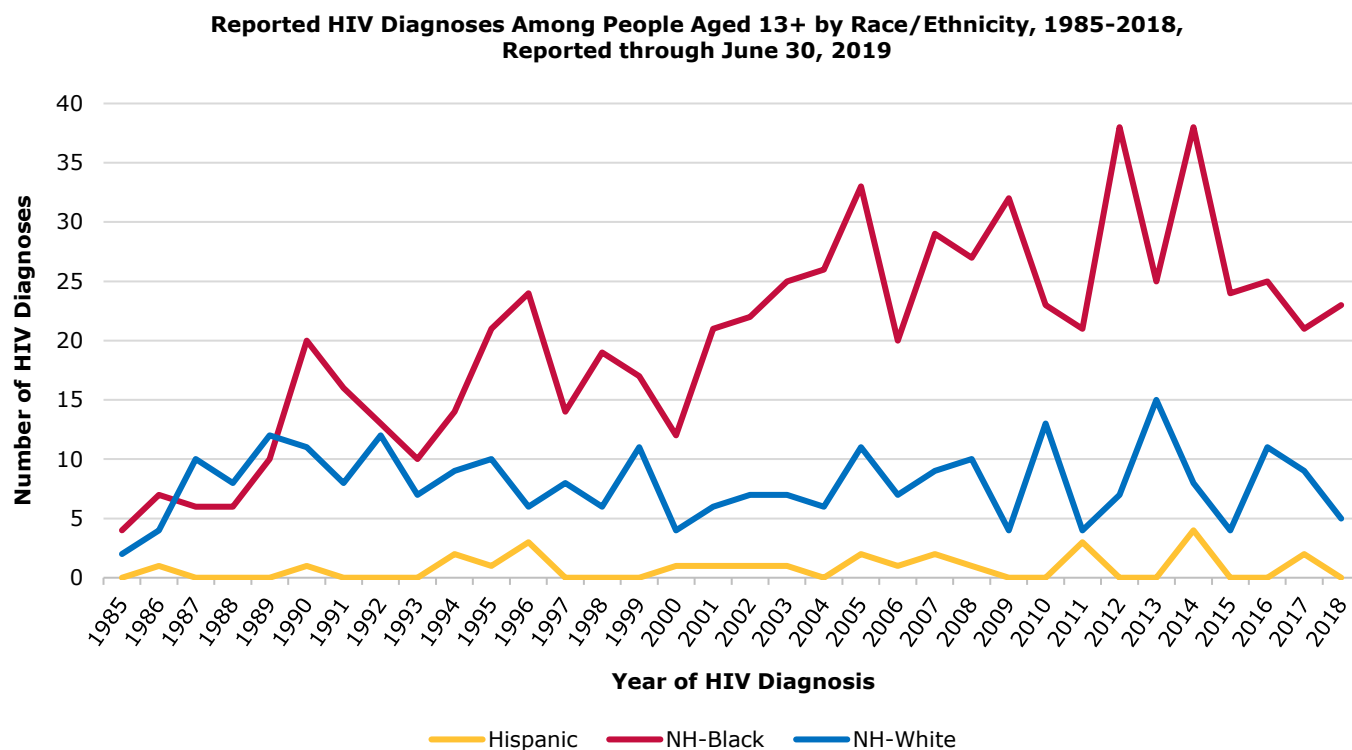
Number and Percent by Sex at Birth of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019



Reported HIV Diagnoses Among People Aged 13+					
Year of HIV Diagnosis	Number	Sex at Birth			
		Male		Female	
		Number	Percent	Number	Percent
<1985	2	2	100.0%	0	0.0%
1985	6	5	83.3%	1	16.7%
1986	12	9	75.0%	3	25.0%
1987	16	13	81.3%	3	18.8%
1988	14	12	85.7%	2	14.3%
1989	22	15	68.2%	7	31.8%
1990	32	22	68.8%	10	31.3%
1991	24	20	83.3%	4	16.7%
1992	25	16	64.0%	9	36.0%
1993	18	9	50.0%	9	50.0%
1994	25	16	64.0%	9	36.0%
1995	33	17	51.5%	16	48.5%
1996	33	19	57.6%	14	42.4%
1997	24	14	58.3%	10	41.7%
1998	25	17	68.0%	8	32.0%
1999	30	21	70.0%	9	30.0%
2000	21	9	42.9%	12	57.1%
2001	29	18	62.1%	11	37.9%
2002	31	22	71.0%	9	29.0%
2003	35	20	57.1%	15	42.9%
2004	34	21	61.8%	13	38.2%
2005	47	29	61.7%	18	38.3%
2006	29	20	69.0%	9	31.0%
2007	46	32	69.6%	14	30.4%
2008	39	29	74.4%	10	25.6%
2009	39	26	66.7%	13	33.3%
2010	38	27	71.1%	11	28.9%
2011	29	21	72.4%	8	27.6%
2012	48	35	72.9%	13	27.1%
2013	40	29	72.5%	11	27.5%
2014	51	34	66.7%	17	33.3%
2015	31	23	74.2%	8	25.8%
2016	38	27	71.1%	11	28.9%
2017	33	26	78.8%	7	21.2%
2018	30	25	83.3%	5	16.7%
Total	1,029	700	68.0%	329	32.0%

Figure 5 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Race/Ethnicity, 1985-2018, Reported through June 30, 2019

Number and Percent by Race/Ethnicity of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019

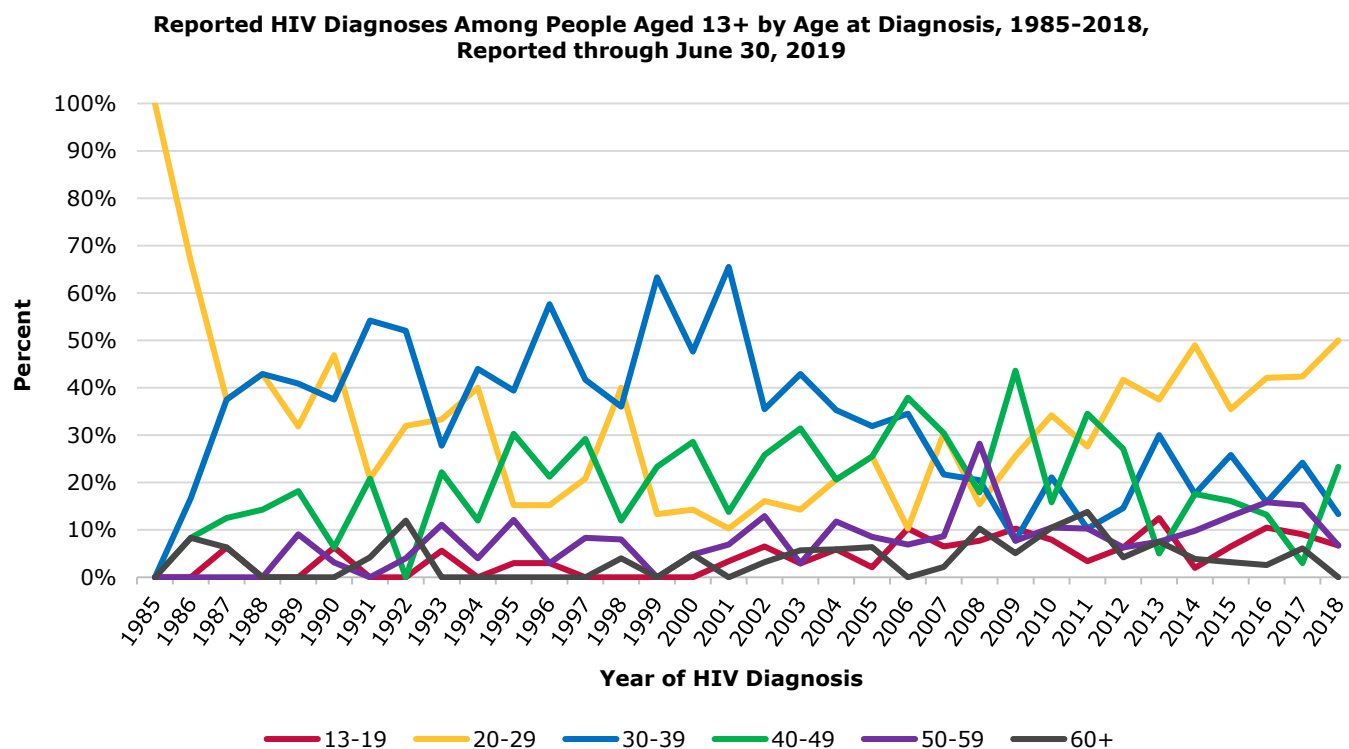
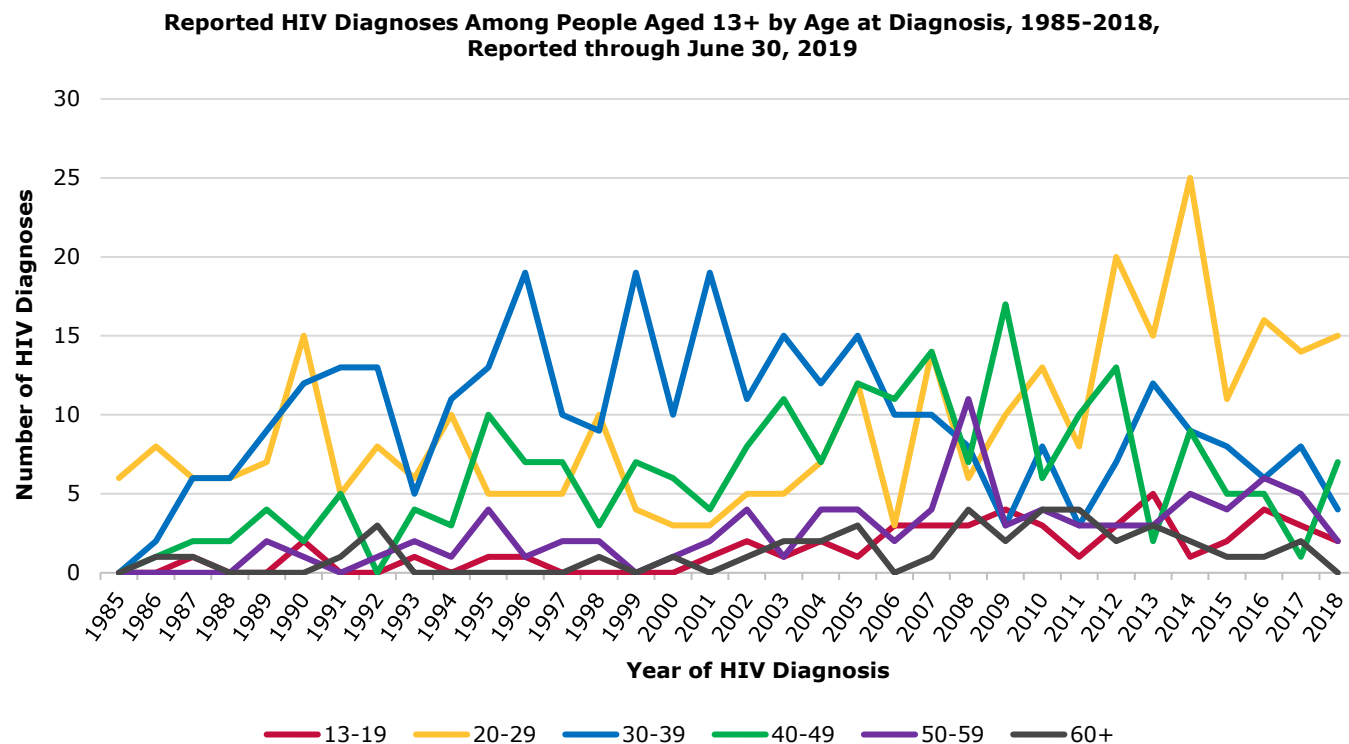


Non-Hispanic Other race not shown

Reported HIV Diagnoses Among People Aged 13+									
Year of HIV Diagnosis	No.	Race/Ethnicity							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	2	0	0.0%	1	50.0%	1	50.0%	0	0.0%
1985	6	0	0.0%	4	66.7%	2	33.3%	0	0.0%
1986	12	1	8.3%	7	58.3%	4	33.3%	0	0.0%
1987	16	0	0.0%	6	37.5%	10	62.5%	0	0.0%
1988	14	0	0.0%	6	42.9%	8	57.1%	0	0.0%
1989	22	0	0.0%	10	45.5%	12	54.5%	0	0.0%
1990	32	1	3.1%	20	62.5%	11	34.4%	0	0.0%
1991	24	0	0.0%	16	66.7%	8	33.3%	0	0.0%
1992	25	0	0.0%	13	52.0%	12	48.0%	0	0.0%
1993	18	0	0.0%	10	55.6%	7	38.9%	1	5.6%
1994	25	2	8.0%	14	56.0%	9	36.0%	0	0.0%
1995	33	1	3.0%	21	63.6%	10	30.3%	1	3.0%
1996	33	3	9.1%	24	72.7%	6	18.2%	0	0.0%
1997	24	0	0.0%	14	58.3%	8	33.3%	2	8.3%
1998	25	0	0.0%	19	76.0%	6	24.0%	0	0.0%
1999	30	0	0.0%	17	56.7%	11	36.7%	2	6.7%
2000	21	1	4.8%	12	57.1%	4	19.0%	4	19.0%
2001	29	1	3.4%	21	72.4%	6	20.7%	1	3.4%
2002	31	1	3.2%	22	71.0%	7	22.6%	1	3.2%
2003	35	1	2.9%	25	71.4%	7	20.0%	2	5.7%
2004	34	0	0.0%	26	76.5%	6	17.6%	2	5.9%
2005	47	2	4.3%	33	70.2%	11	23.4%	1	2.1%
2006	29	1	3.4%	20	69.0%	7	24.1%	1	3.4%
2007	46	2	4.3%	29	63.0%	9	19.6%	6	13.0%
2008	39	1	2.6%	27	69.2%	10	25.6%	1	2.6%
2009	39	0	0.0%	32	82.1%	4	10.3%	3	7.7%
2010	38	0	0.0%	23	60.5%	13	34.2%	2	5.3%
2011	29	3	10.3%	21	72.4%	4	13.8%	1	3.4%
2012	48	0	0.0%	38	79.2%	7	14.6%	3	6.3%
2013	40	0	0.0%	25	62.5%	15	37.5%	0	0.0%
2014	51	4	7.8%	38	74.5%	8	15.7%	1	2.0%
2015	31	0	0.0%	24	77.4%	4	12.9%	3	9.7%
2016	38	0	0.0%	25	65.8%	11	28.9%	2	5.3%
2017	33	2	6.1%	21	63.6%	9	27.3%	1	3.0%
2018	30	0	0.0%	23	76.7%	5	16.7%	2	6.7%
Total	1,029	27	2.6%	687	66.8%	272	26.4%	43	4.2%

Figure 6 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, 1985-2018, Reported through June 30, 2019

Number and Percent by Age at HIV Diagnosis of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019

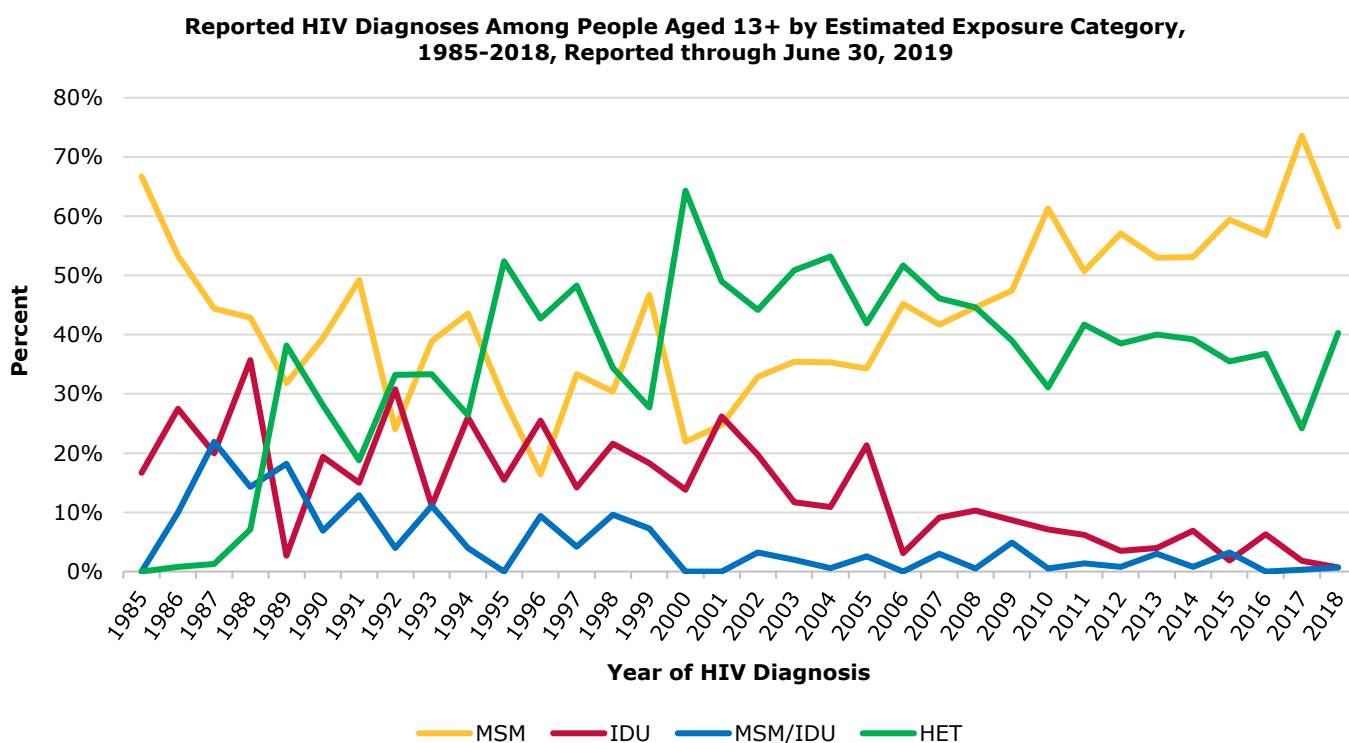
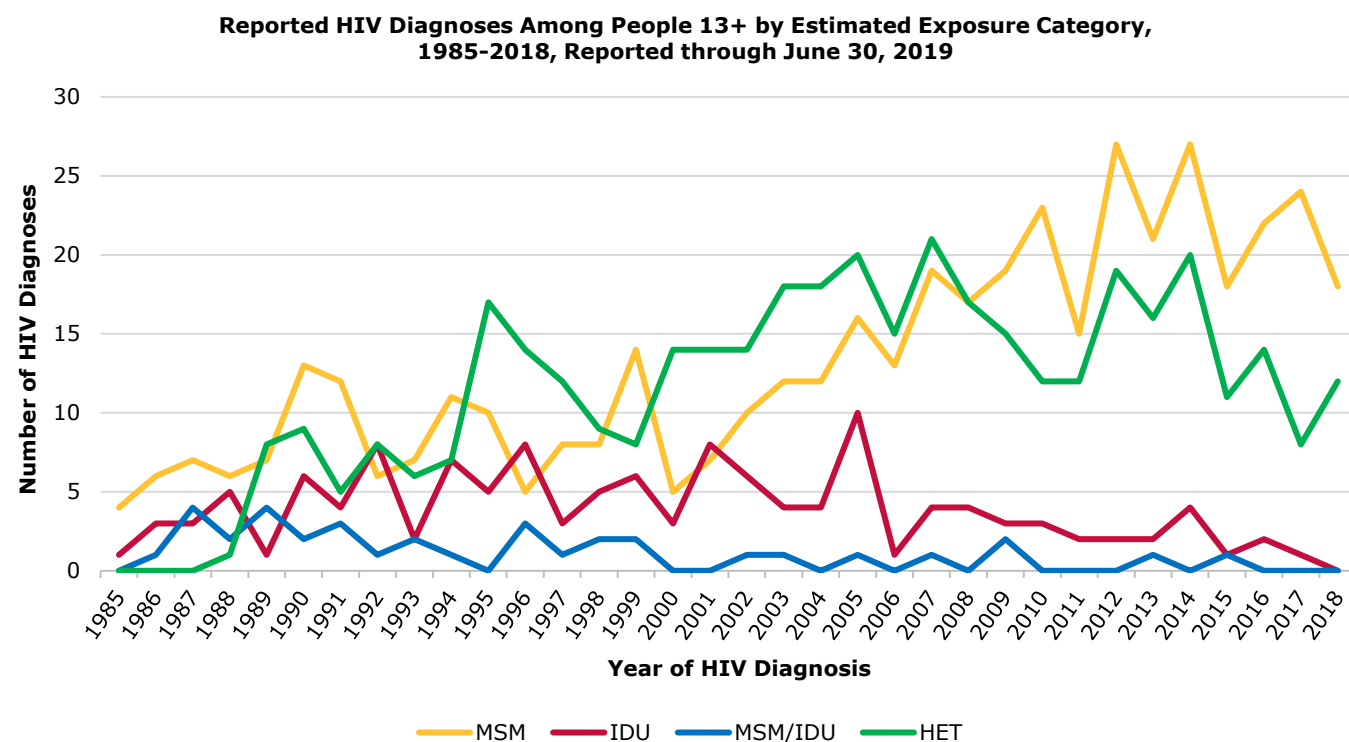


Reported HIV Diagnoses Among People Aged 13+

Year of HIV Diagnosis	No.	Age at HIV Diagnosis											
		13-19		20-29		30-39		40-49		50-59		60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	2	1	50.0%	0	0.0%	0	0.0%	1	50.0%	0	0.0%	0	0.0%
1985	6	0	0.0%	6	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
1986	12	0	0.0%	8	66.7%	2	16.7%	1	8.3%	0	0.0%	1	8.3%
1987	16	1	6.3%	6	37.5%	6	37.5%	2	12.5%	0	0.0%	1	6.3%
1988	14	0	0.0%	6	42.9%	6	42.9%	2	14.3%	0	0.0%	0	0.0%
1989	22	0	0.0%	7	31.8%	9	40.9%	4	18.2%	2	9.1%	0	0.0%
1990	32	2	6.3%	15	46.9%	12	37.5%	2	6.3%	1	3.1%	0	0.0%
1991	24	0	0.0%	5	20.8%	13	54.2%	5	20.8%	0	0.0%	1	4.2%
1992	25	0	0.0%	8	32.0%	13	52.0%	0	0.0%	1	4.0%	3	12.0%
1993	18	1	5.6%	6	33.3%	5	27.8%	4	22.2%	2	11.1%	0	0.0%
1994	25	0	0.0%	10	40.0%	11	44.0%	3	12.0%	1	4.0%	0	0.0%
1995	33	1	3.0%	5	15.2%	13	39.4%	10	30.3%	4	12.1%	0	0.0%
1996	33	1	3.0%	5	15.2%	19	57.6%	7	21.2%	1	3.0%	0	0.0%
1997	24	0	0.0%	5	20.8%	10	41.7%	7	29.2%	2	8.3%	0	0.0%
1998	25	0	0.0%	10	40.0%	9	36.0%	3	12.0%	2	8.0%	1	4.0%
1999	30	0	0.0%	4	13.3%	19	63.3%	7	23.3%	0	0.0%	0	0.0%
2000	21	0	0.0%	3	14.3%	10	47.6%	6	28.6%	1	4.8%	1	4.8%
2001	29	1	3.4%	3	10.3%	19	65.5%	4	13.8%	2	6.9%	0	0.0%
2002	31	2	6.5%	5	16.1%	11	35.5%	8	25.8%	4	12.9%	1	3.2%
2003	35	1	2.9%	5	14.3%	15	42.9%	11	31.4%	1	2.9%	2	5.7%
2004	34	2	5.9%	7	20.6%	12	35.3%	7	20.6%	4	11.8%	2	5.9%
2005	47	1	2.1%	12	25.5%	15	31.9%	12	25.5%	4	8.5%	3	6.4%
2006	29	3	10.3%	3	10.3%	10	34.5%	11	37.9%	2	6.9%	0	0.0%
2007	46	3	6.5%	14	30.4%	10	21.7%	14	30.4%	4	8.7%	1	2.2%
2008	39	3	7.7%	6	15.4%	8	20.5%	7	17.9%	11	28.2%	4	10.3%
2009	39	4	10.3%	10	25.6%	3	7.7%	17	43.6%	3	7.7%	2	5.1%
2010	38	3	7.9%	13	34.2%	8	21.1%	6	15.8%	4	10.5%	4	10.5%
2011	29	1	3.4%	8	27.6%	3	10.3%	10	34.5%	3	10.3%	4	13.8%
2012	48	3	6.3%	20	41.7%	7	14.6%	13	27.1%	3	6.3%	2	4.2%
2013	40	5	12.5%	15	37.5%	12	30.0%	2	5.0%	3	7.5%	3	7.5%
2014	51	1	2.0%	25	49.0%	9	17.6%	9	17.6%	5	9.8%	2	3.9%
2015	31	2	6.5%	11	35.5%	8	25.8%	5	16.1%	4	12.9%	1	3.2%
2016	38	4	10.5%	16	42.1%	6	15.8%	5	13.2%	6	15.8%	1	2.6%
2017	33	3	9.1%	14	42.4%	8	24.2%	1	3.0%	5	15.2%	2	6.1%
2018	30	2	6.7%	15	50.0%	4	13.3%	7	23.3%	2	6.7%	0	0.0%
Total	1,029	51	5.0%	311	30.2%	325	31.6%	213	20.7%	87	8.5%	42	4.1%

Figure 7 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Estimated Exposure Category, 1985-2018, Reported through June 30, 2019

Number and Percent by Estimated Exposure Category[§] of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019



Other exposure category not shown

§ Multiple imputation was used to estimate and adjust for missing exposure category.

Year of HIV Diagnosis	Reported HIV Diagnoses Among People Aged 13+											
	No.	% with No Reported Exposure [§]	Estimated Exposure Category [§]									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	2	0.0%	2	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
1985	6	16.7%	4	66.7%	1	16.7%	0	0.0%	0	0.0%	1	16.7%
1986	12	8.3%	6	53.3%	3	27.5%	1	10.0%	0	0.8%	1	8.3%
1987	16	12.5%	7	44.4%	3	20.0%	4	21.9%	0	1.3%	2	12.5%
1988	14	0.0%	6	42.9%	5	35.7%	2	14.3%	1	7.1%	0	0.0%
1989	22	4.5%	7	31.8%	1	2.7%	4	18.2%	8	38.2%	2	9.1%
1990	32	3.1%	13	39.4%	6	19.4%	2	6.9%	9	28.1%	2	6.3%
1991	24	8.3%	12	49.2%	4	15.0%	3	12.9%	5	18.8%	1	4.2%
1992	25	4.0%	6	24.0%	8	30.8%	1	4.0%	8	33.2%	2	8.0%
1993	18	0.0%	7	38.9%	2	11.1%	2	11.1%	6	33.3%	1	5.6%
1994	25	8.0%	11	43.6%	7	26.0%	1	4.0%	7	26.4%	0	0.0%
1995	33	9.1%	10	29.1%	5	15.5%	0	0.0%	17	52.4%	1	3.0%
1996	33	18.2%	5	16.4%	8	25.5%	3	9.4%	14	42.7%	2	6.1%
1997	24	4.2%	8	33.3%	3	14.2%	1	4.2%	12	48.3%	0	0.0%
1998	25	24.0%	8	30.4%	5	21.6%	2	9.6%	9	34.4%	1	4.0%
1999	30	16.7%	14	46.7%	6	18.3%	2	7.3%	8	27.7%	0	0.0%
2000	21	19.0%	5	21.9%	3	13.8%	0	0.0%	14	64.3%	0	0.0%
2001	29	20.7%	7	24.8%	8	26.2%	0	0.0%	14	49.0%	0	0.0%
2002	31	12.9%	10	32.9%	6	19.7%	1	3.2%	14	44.2%	0	0.0%
2003	35	25.7%	12	35.4%	4	11.7%	1	2.0%	18	50.9%	0	0.0%
2004	34	29.4%	12	35.3%	4	10.9%	0	0.6%	18	53.2%	0	0.0%
2005	47	23.4%	16	34.3%	10	21.3%	1	2.6%	20	41.9%	0	0.0%
2006	29	20.7%	13	45.2%	1	3.1%	0	0.0%	15	51.7%	0	0.0%
2007	46	37.0%	19	41.7%	4	9.1%	1	3.0%	21	46.1%	0	0.0%
2008	39	30.8%	17	44.6%	4	10.3%	0	0.5%	17	44.6%	0	0.0%
2009	39	61.5%	19	47.4%	3	8.7%	2	4.9%	15	39.0%	0	0.0%
2010	38	63.2%	23	61.3%	3	7.1%	0	0.5%	12	31.1%	0	0.0%
2011	29	48.3%	15	50.7%	2	6.2%	0	1.4%	12	41.7%	0	0.0%
2012	48	22.9%	27	57.1%	2	3.5%	0	0.8%	19	38.5%	0	0.0%
2013	40	25.0%	21	53.0%	2	4.0%	1	3.0%	16	40.0%	0	0.0%
2014	51	17.6%	27	53.1%	4	6.9%	0	0.8%	20	39.2%	0	0.0%
2015	31	9.7%	18	59.4%	1	1.9%	1	3.2%	11	35.5%	0	0.0%
2016	38	13.2%	22	56.8%	2	6.3%	0	0.0%	14	36.8%	0	0.0%
2017	33	27.3%	24	73.6%	1	1.8%	0	0.3%	8	24.2%	0	0.0%
2018	30	13.3%	18	58.3%	0	0.7%	0	0.7%	12	40.3%	0	0.0%
Total	1,029	21.8%	451	43.8%	131	12.7%	36	3.5%	394	38.3%	16	1.6%

§ Multiple imputation was used to estimate and adjust for missing transmission category.

[§]Percent with no reported exposure prior to multiple imputation adjustment.

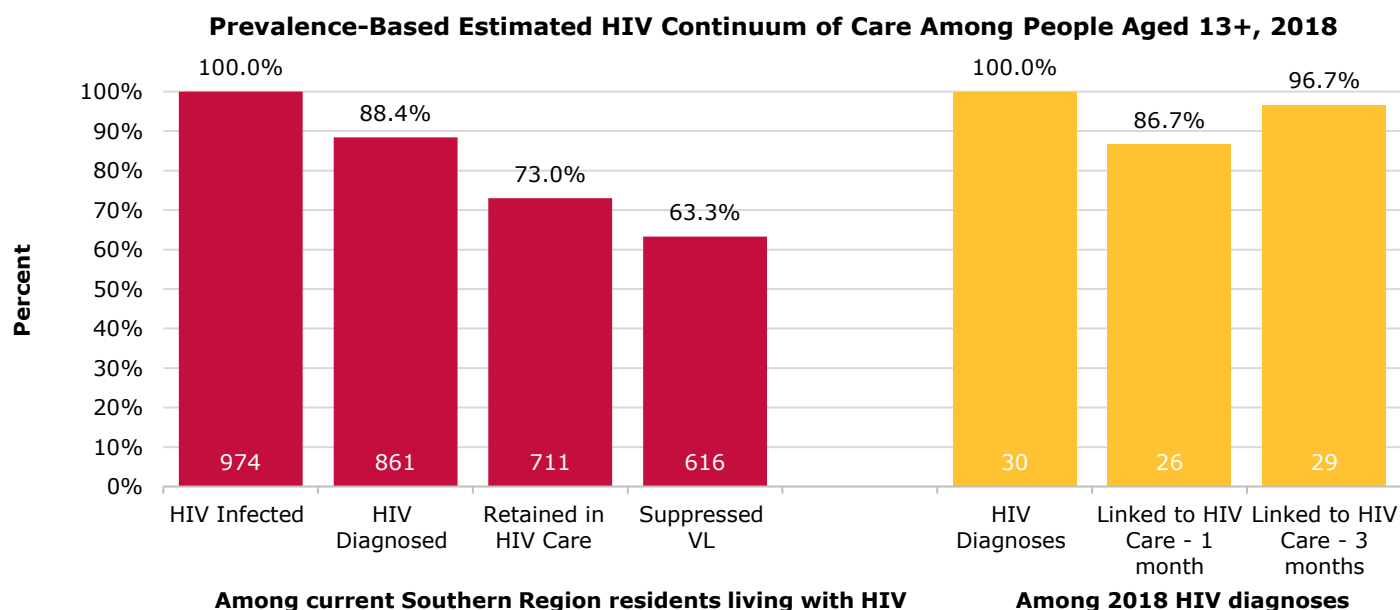
Note. Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1 percent of people missing transmission category after multiple imputation.

Section III – Continuum of Care Cascades

In their 2011 article in Clinical Infectious Diseases, Gardner et al.¹ utilize a continuum of care “cascade” to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Figure 8 – Prevalence-Based Estimated 2018 HIV Continuum of Care Cascades, Among Current Southern Region Residents Aged 13+, Reported through June 30, 2019

The prevalence-based Southern Region Engagement in HIV Care Cascades (below) apply the Centers for Disease Control and Prevention (CDC) CD4 depletion model to Maryland surveillance data, reported through June 30, 2019, to estimate the number of people living with undiagnosed HIV (11.6 percent) and the estimated number of people living with HIV currently residing in the Southern Region. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in Southern Region on December 31, 2018 and the number and percentage of new HIV diagnoses in 2018 who belong to each of the stages of engagement in HIV care.



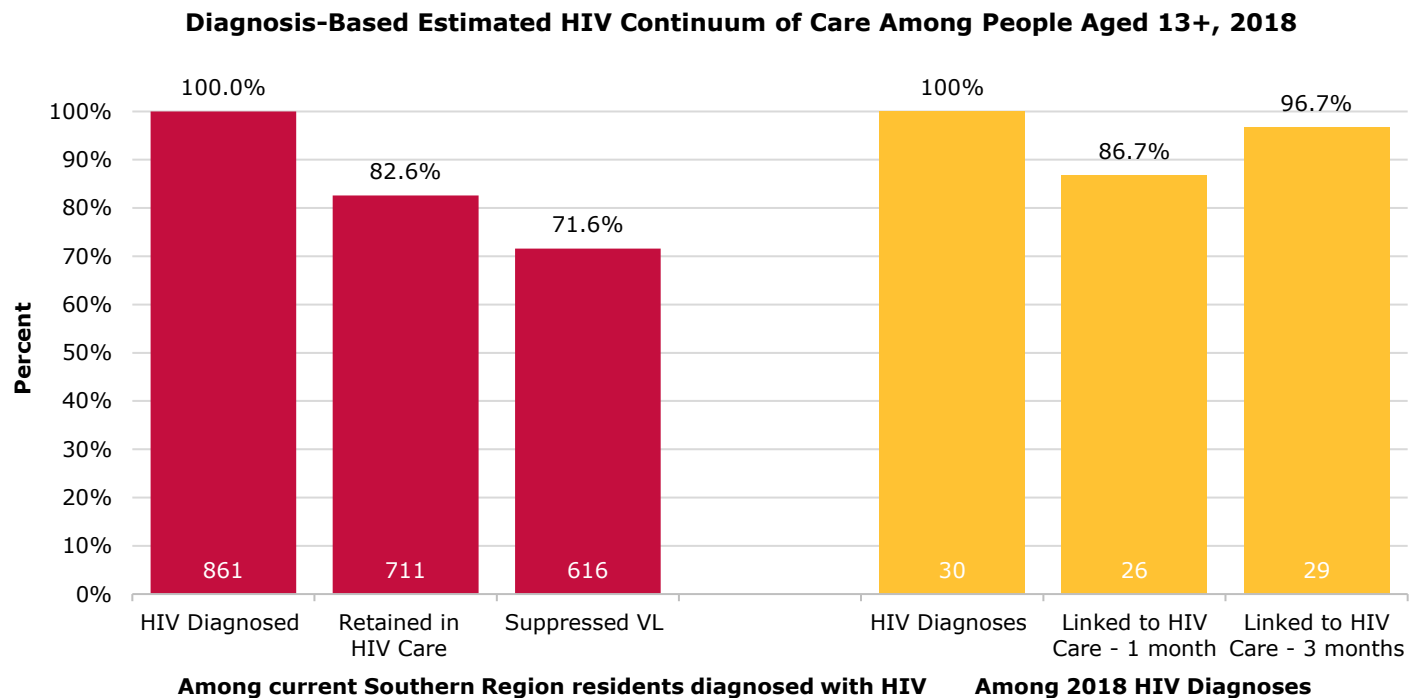
Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2018 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Infected	974	100.0%	New HIV Diagnoses	30	100.0%
HIV Diagnosed	861	88.4%	Linked to HIV Care – 1 Month	26	86.7%
Retained in HIV Care	711	73.0%	Linked to HIV Care – 3 Months	29	96.7%
Suppressed VL	616	63.3%			

¹ Gardner et al, “The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection.” Clin Infect Dis. 2011; 52 (6): 793-800.

² Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2010–2015. HIV Surveillance Supplemental Report 2018;23(No. 1). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published March 2018.

Figure 9 – Diagnosis-Based Estimated 2018 HIV Continuum of Care Cascades, Among Current Southern Region Residents Aged 13+, Reported through June 30, 2019

The diagnosis-based Southern Region Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Southern Region residents to describe the number and percentage of persons living with diagnosed HIV in the Southern Region on December 31, 2018 and the number and percentage of new HIV diagnoses in 2018 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2018 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Diagnosed	861	100.0%	New HIV Diagnoses	30	100.0%
Retained in HIV Care	711	82.6%	Linked to HIV Care – 1 Month	26	86.7%
Suppressed VL	616	71.6%	Linked to HIV Care – 3 Months	29	96.7%

Section IV –Reported HIV Diagnoses, Among People Aged 13+, by Jurisdiction

Table 1 – Reported HIV Diagnoses, Among People Aged 13+ During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through June 30, 2019

Jurisdiction of Residence at HIV Diagnosis	Population Age 13+	Reported HIV Diagnoses Among People Aged 13+							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		% with Test	Median Count
Calvert	77,463	4	13.3%	5.2	***	***	***	***	***
Charles	134,428	22	73.3%	16.4	90.9%	95.5%	***	95.5%	497
Saint Mary's	93,234	4	13.3%	4.3	***	***	***	***	***
Total	305,125	30	100.0%	9.8	86.7%	96.7%	***	96.7%	497

*** Data withheld due to low population counts and/or small numbers

Table 2 – Reported AIDS Diagnoses, Among People Aged 13+ During 2018, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through June 30, 2019

Jurisdiction of Residence at AIDS Diagnosis	Population Age 13+	Reported AIDS Diagnoses Among People Aged 13+				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Calvert	77,463	2	14.3%	2.6	***	***
Charles	134,428	8	57.1%	6.0	3.3	12.5%
Saint Mary's	93,234	4	28.6%	4.3	***	***
Total	305,125	14	100.0%	4.6	3.8	14.3%

*** Data withheld due to low population counts and/or small numbers

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2019

Jurisdiction of Residence	Population Age 13+	Total People Aged 13+ Living with Diagnosed HIV							
		Residence at Diagnosis				Current Residence			
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	% Change
Calvert	77,463	113	15.5%	145.9	686	133	15.4%	171.7	17.7%
Charles	134,428	476	65.2%	354.1	282	566	65.7%	421.0	18.9%
Saint Mary's	93,234	141	19.3%	151.2	661	162	18.8%	173.8	14.9%
Total	305,125	730	100.0%	239.2	418	861	100.0%	282.2	17.9%

Table 4 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Current Residence, Reported through June 30, 2019

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Calvert	133	112	84.2%	640	8.0%	11.6%	17.9%	62.5%
Charles	566	452	79.9%	651	8.0%	10.4%	15.5%	66.2%
Saint Mary’s	162	131	80.9%	593	6.9%	15.3%	17.6%	60.3%
Total	861	695	80.7%	638	7.8%	11.5%	16.3%	64.5%

Table 5 – Viral Load Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Current Residence, Reported through June 30, 2019

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV					
	No.	Recent Viral Load Test Result				Median Unsuppressed
		No. with Test	% with Test	% Suppressed		
Calvert	133	110	82.7%	90.9%		3,310
Charles	566	451	79.7%	87.8%		8,214
Saint Mary's	162	136	84.0%	88.2%		1,970
Total	861	697	81.0%	88.4%		4,375

Section V – People Living with Diagnosed HIV by Age

Table 6 – Reported HIV Diagnoses During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through June 30, 2019

Age at HIV Diagnosis	Population	Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	% with Test	Median Count
<5 (Pediatric)	21,718	0	0.0%	0.0	--	--	--	--	--
5-12 (Pediatric)	39,327	0	0.0%	0.0	--	--	--	--	--
13-19	35,385	2	6.7%	5.7	***	***	***	***	***
20-29	46,545	15	50.0%	32.2	86.7%	100.0%	***	100.0%	463
30-39	47,528	4	13.3%	8.4	***	***	***	***	***
40-49	47,894	7	23.3%	14.6	100.0%	100.0%	***	100.0%	672
50-59	57,206	2	6.7%	3.5	***	***	***	***	***
60+	70,567	0	0.0%	0.0	--	--	--	--	--
Total	366,170	30	100.0%	8.2	86.7%	96.7%	***	96.7%	497

*** Data withheld due to low population counts and/or small numbers

Table 7 – People Living with Diagnosed HIV, Alive on December 31, 2018, by Age on December 31, 2018, Reported through June 30, 2019

Age on December 31, 2018	Population	Total People Living with Diagnosed HIV			
		No.	% of Total	Rate	Ratio (1 in X)
<5 (Pediatric)	21,718	2	0.2%	9.2	10,859
5-12 (Pediatric)	39,327	2	0.2%	5.1	19,664
13-19	35,385	6	0.7%	17.0	5,897
20-29	46,545	106	12.3%	227.7	439
30-39	47,528	161	18.6%	338.7	295
40-49	47,894	194	22.4%	405.1	247
50-59	57,206	273	31.6%	477.2	210
60+	70,567	121	14.0%	171.5	583
Total	366,170	865	100.0%	236.2	423

Table 8 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Age on December 31, 2018, Reported through June 30, 2019

Age on December 31, 2018	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	6	***	***	***	***	***	***	***
20-29	106	87	82.1%	598	5.7%	11.5%	23.0%	59.8%
30-39	161	125	77.6%	660	5.6%	12.8%	12.0%	69.6%
40-49	194	154	79.4%	698	8.4%	6.5%	18.2%	66.9%
50-59	273	225	82.4%	620	8.4%	13.3%	15.1%	63.1%
60+	121	***	***	***	***	***	***	***
Total	861	695	80.7%	638	7.8%	11.5%	16.3%	64.5%

Table 9 – Viral Load Test Results During 2018 for People Living with Diagnosed HIV, Alive on December 31, 2018, by Age on December 31, 2018, Reported through June 30, 2019

Age on December 31, 2018	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
13-19	6	5	83.3%	100.0%	--
20-29	106	90	84.9%	76.7%	28,100
30-39	161	123	76.4%	87.0%	2,435
40-49	194	154	79.4%	89.6%	1,650
50-59	273	222	81.3%	89.2%	9,010
60+	121	103	85.1%	96.1%	9,325
Total	861	697	81.0%	88.4%	4,375

Section VI – People Aged 13+ Living with Diagnosed HIV by Demographics

Table 10 – Reported HIV Diagnoses, Among People Aged 13+ During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2019

Demographic Characteristics	Population Age 13+	Reported HIV Diagnoses Among People Aged 13+							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	% with Test
Sex at Birth									
Male	148,343	25	83.3%	16.9	84.0%	96.0%	***	96.0%	460
Female	156,781	5	16.7%	3.2	100.0%	100.0%	***	100.0%	672
Gender									
Male	148,343	25	83.3%	16.9	84.0%	96.0%	***	96.0%	460
Female	156,781	5	16.7%	3.2	100.0%	100.0%	***	100.0%	672
Transgender Female	--	0	0.0%	--	--	--	--	--	--
Transgender Male	--	0	0.0%	--	--	--	--	--	--
Another Gender Identity	--	0	0.0%	--	--	--	--	--	--
Race/Ethnicity									
Hispanic	14,596	0	0.0%	0.0	--	--	--	--	--
Non-Hispanic	290,528	30	100.0%	10.3	86.7%	96.7%	***	96.7%	497
American Indian/Alaska Native, only	1,446	0	0.0%	0.0	--	--	--	--	--
Asian, only	8,776	2	6.7%	22.8	***	***	***	***	***
Black, only	87,321	23	76.7%	26.3	91.3%	95.7%	***	95.7%	480
Native Hawaiian/Other Pacific Islander, only	255	0	0.0%	0.0	--	--	--	--	--
White, only	185,209	5	16.7%	2.7	***	100.0%	***	100.0%	557
Multiracial/Other	7,521	0	0.0%	0.0	--	--	--	--	--
Total	305,125	30	100.0%	9.8	86.7%	96.7%	***	96.7%	497
Country of Birth									
United States	279,058	27	90.0%	9.7	***	***	***	***	***
Foreign-Born	16,546	3	10.0%	18.1	***	***	***	***	***
Africa	--	1	33.3%	--	***	***	***	***	***
Asia	--	2	66.7%	--	***	***	***	***	***
Caribbean	--	0	0.0%	--	--	--	--	--	--
Central America	--	0	0.0%	--	--	--	--	--	--
Other	--	0	0.0%	--	--	--	--	--	--
Unknown	--	0	0.0%	--	--	--	--	--	--
Total	295,604	30	100.0%	10.1	86.7%	96.7%	6.7%	96.7%	497

Note. Population data by sex at birth, age, and race/ethnicity are from the 2018 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2017 American Community Survey.

*** Data withheld due to low population counts and/or small numbers

Table 11 – People Aged 13+ Living with Diagnosed HIV Alive on December 31, 2018, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2019

Demographic Characteristics	Population Age 13+	Total People Aged 13+ Living with Diagnosed HIV			
		No.	% of Total	Rate	Ratio (1 in X)
Sex at Birth					
Male	148,343	570	66.2%	384.2	260
Female	156,781	291	33.8%	185.6	539
Gender					
Male	148,343	562	65.3%	378.9	264
Female	156,781	291	33.8%	185.6	539
Transgender Female	--	8	0.9%	--	--
Transgender Male	--	0	0.0%	--	--
Another Gender Identity	--	0	0.0%	--	--
Race/Ethnicity					
Hispanic	14,596	28	3.3%	191.8	521
Non-Hispanic	290,528	833	96.7%	286.7	349
American Indian/Alaska Native, only	1,446	0	0.0%	0.0	--
Asian, only	8,776	3	0.3%	34.2	2,925
Black, only	87,321	623	72.4%	713.5	140
Native Hawaiian/Other Pacific Islander, only	255	0	0.0%	0.0	--
White, only	185,209	170	19.7%	91.8	1,089
Multiracial/Other	7,521	37	4.3%	492.0	203
Total	305,125	861	100.0%	282.2	354
Country of Birth					
United States	279,058	808	93.8%	289.5	345
Foreign-Born	16,546	29	3.4%	175.3	571
Africa	--	14	48.3%	--	--
Asia	--	4	13.8%	--	--
Caribbean	--	2	6.9%	--	--
Central America	--	5	17.2%	--	--
Other	--	4	13.8%	--	--
Unknown	--	24	2.8%	--	--
Total	295,604	861	100.0%	291.3	343

Note. Population data by sex at birth, age, and race/ethnicity are from the 2018 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2017 American Community Survey.

Table 12 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2019

Demographic Characteristics	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Sex at Birth								
Male	570	447	78.4%	605	8.3%	12.1%	18.6%	61.1%
Female	291	248	85.2%	734	6.9%	10.5%	12.1%	70.6%
Gender								
Male	562	440	78.3%	606	8.4%	12.3%	18.2%	61.1%
Female	291	248	85.2%	734	6.9%	10.5%	12.1%	70.6%
Transgender Female	8	7	87.5%	584	0.0%	0.0%	42.9%	57.1%
Transgender Male	0	--	--	--	--	--	--	--
Another Gender Identity	0	--	--	--	--	--	--	--
Race/Ethnicity								
Hispanic	28	20	71.4%	784	10.0%	10.0%	5.0%	75.0%
Non-Hispanic	833	675	81.0%	632	7.7%	11.6%	16.6%	64.1%
American Indian/Alaska Native, only	0	--	--	--	--	--	--	--
Asian, only	3	***	***	***	***	***	***	***
Black, only	623	492	79.0%	610	8.9%	11.0%	18.1%	62.0%
Native Hawaiian/Other Pacific Islander, only	0	--	--	--	--	--	--	--
White, only	170	145	85.3%	691	4.1%	14.5%	12.4%	69.0%
Multiracial/Other	37	***	***	***	***	***	***	***
Country of Birth								
United States	808	658	81.4%	651	7.6%	12.0%	16.3%	64.1%
Foreign-Born	29	25	86.2%	527	12.0%	4.0%	20.0%	64.0%
Africa	14	13	92.9%	512	0.0%	7.7%	30.8%	61.5%
Asia	4	***	***	***	***	***	***	***
Caribbean	2	***	***	***	***	***	***	***
Central America	5	***	***	***	***	***	***	***
Other	4	***	***	***	***	***	***	***
Unknown	24	12	50.0%	635	8.3%	0.0%	8.3%	83.3%
Total	861	695	80.7%	638	7.8%	11.5%	16.3%	64.5%

*** Data withheld due to low population counts and/or small numbers

Table 13 – Viral Load Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2019

Demographic Characteristics	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Sex at Birth					
Male	570	447	78.4%	87.9%	7,804
Female	291	250	85.9%	89.2%	3,035
Gender					
Male	562	440	78.3%	87.7%	7,804
Female	291	250	85.9%	89.2%	3,035
Transgender Female	8	7	87.5%	100.0%	--
Transgender Male	0	--	--	--	--
Another Gender Identity	0	--	--	--	--
Race/Ethnicity					
Hispanic	28	21	75.0%	76.2%	3,760
Non-Hispanic	833	676	81.2%	88.8%	4,780
American Indian/Alaska Native, only	0	--	--	--	--
Asian, only	3	***	***	***	***
Black, only	623	494	79.3%	87.0%	7,417
Native Hawaiian/Other Pacific Islander, only	0	--	--	--	--
White, only	170	145	85.3%	93.8%	1,720
Multiracial/Other	37	***	***	***	***
Country of Birth					
United States	808	660	81.7%	88.6%	4,375
Foreign-Born	29	25	86.2%	80.0%	981
Africa	14	13	92.9%	76.9%	610
Asia	4	***	***	***	***
Caribbean	2	***	***	***	***
Central America	5	***	***	***	***
Other	4	***	***	***	***
Unknown	24	12	50.0%	91.7%	19,900
Total	861	697	81.0%	88.4%	4,375

*** Data withheld due to low population counts and/or small numbers

Section VII – People Living with Diagnosed HIV by Expanded Demographics

Figure 10 – Population Pyramids of Total People Living with Diagnosed HIV, by Age on December 31, 2018, Sex at Birth, and Race/Ethnicity, Alive on December 31, 2018, and Reported through June 30, 2019

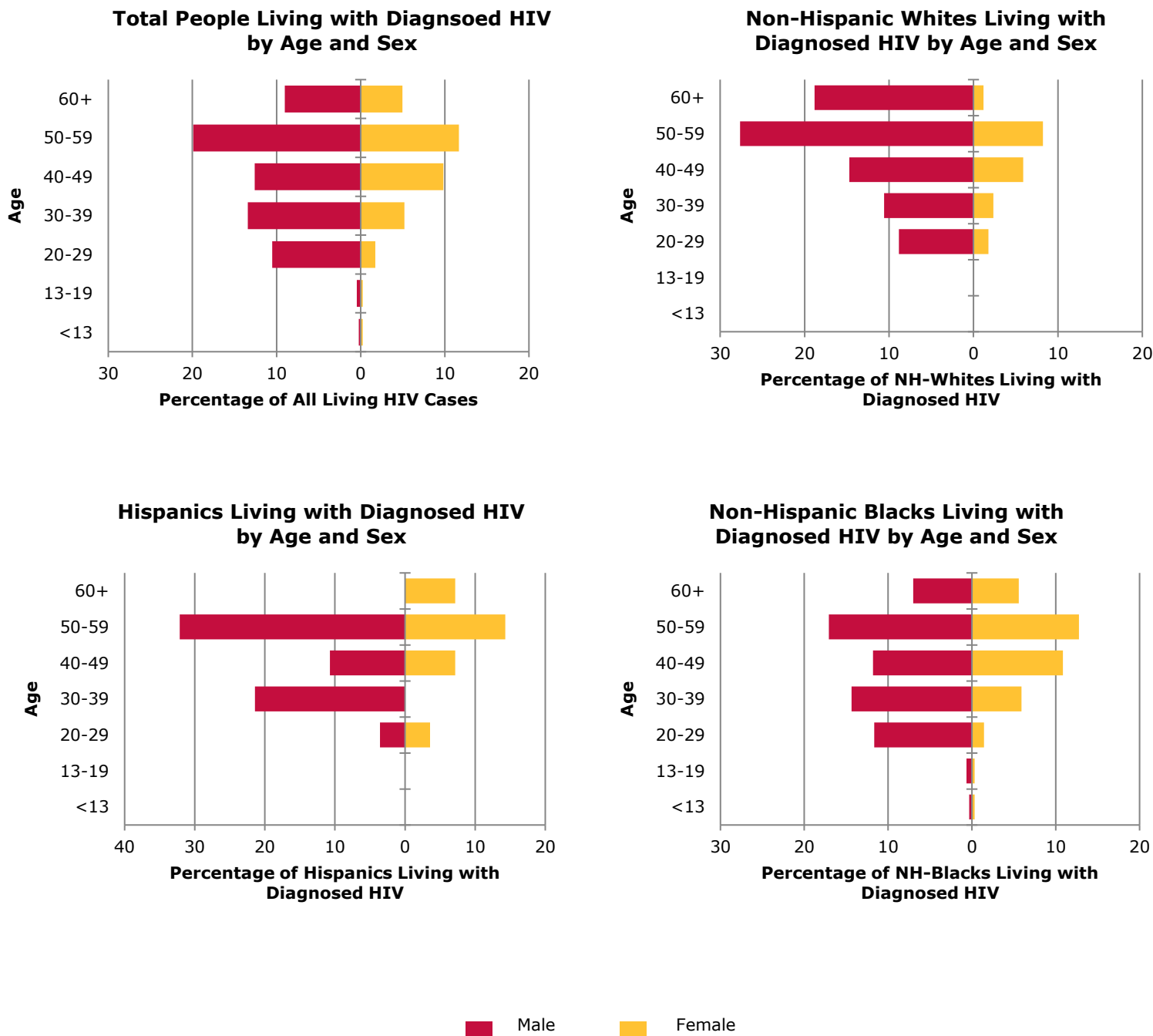


Table 14 – Total Males Living with Diagnosed HIV by Age on December 31, 2018 and Race/Ethnicity, Alive on December 31, 2018, and Reported through June 30, 2019

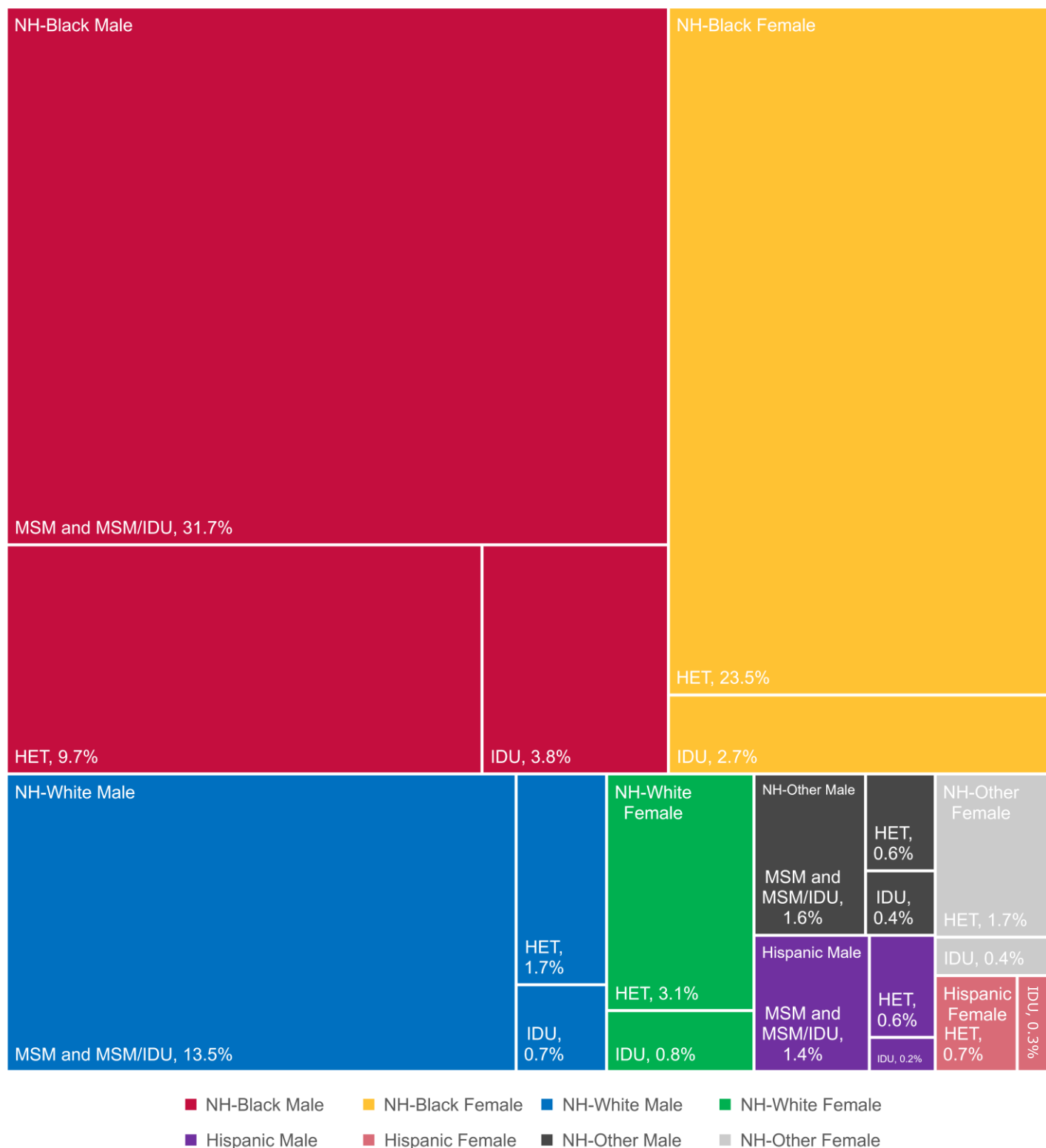
Total Males Living with Diagnosed HIV						
Age on December 31, 2018		Race/Ethnicity				Total Males by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	2,554	9,075	16,431	3,145	31,205
	Number	0	2	0	0	2
	Rate	0.0	22.0	0.0	0.0	6.4
	Ratio (1 in X)	--	4,538	--	--	15,602
13-19	Population	1,129	5,577	9,470	1,744	17,920
	Number	0	4	0	0	4
	Rate	0.0	71.7	0.0	0.0	22.3
	Ratio (1 in X)	--	1,394	--	--	4,480
20-29	Population	1,563	7,270	13,446	1,611	23,890
	Number	1	73	15	2	91
	Rate	64.0	1,004.1	111.6	124.1	380.9
	Ratio (1 in X)	1,563	100	896	806	263
30-39	Population	1,844	6,430	13,723	1,205	23,202
	Number	6	90	18	2	116
	Rate	325.4	1,399.7	131.2	166.0	500.0
	Ratio (1 in X)	307	71	762	603	200
40-49	Population	1,377	7,046	13,073	1,226	22,722
	Number	***	74	25	***	109
	Rate	***	1,050.2	191.2	***	479.7
	Ratio (1 in X)	***	95	523	***	208
50-59	Population	826	7,774	18,300	1,085	27,985
	Number	***	107	47	***	172
	Rate	***	1,376.4	256.8	***	614.6
	Ratio (1 in X)	***	73	389	***	163
60+	Population	611	6,777	24,022	1,214	32,624
	Number	0	44	32	2	78
	Rate	0.0	649.3	133.2	164.7	239.1
	Ratio (1 in X)	--	154	751	607	418
Total Males by Race/Ethnicity	Population	9,904	49,949	108,465	11,230	179,548
	Number	19	394	137	22	572
	Rate	191.8	788.8	126.3	195.9	318.6
	Ratio (1 in X)	521	127	792	510	314

Table 15 – Total Females Living with Diagnosed HIV by Age on December 31, 2018 and Race/Ethnicity, Alive on December 31, 2018, and Reported through June 30, 2019

		Total Females Living with Diagnosed HIV				
Age on December 31, 2018		Race/Ethnicity				Total Females by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	2,417	8,757	15,662	3,005	29,841
	Number	0	2	0	0	2
	Rate	0.0	22.8	0.0	0.0	6.7
	Ratio (1 in X)	--	4,378	--	--	14,920
13-19	Population	1,165	5,484	9,223	1,592	17,464
	Number	0	2	0	0	2
	Rate	0.0	36.5	0.0	0.0	11.5
	Ratio (1 in X)	--	2,742	--	--	8,732
20-29	Population	1,437	7,227	12,355	1,636	22,655
	Number	1	9	3	2	15
	Rate	69.6	124.5	24.3	122.2	66.2
	Ratio (1 in X)	1,437	803	4,118	818	1,510
30-39	Population	1,710	7,468	13,516	1,632	24,326
	Number	0	37	4	4	45
	Rate	0.0	495.4	29.6	245.1	185.0
	Ratio (1 in X)	--	202	3,379	408	541
40-49	Population	1,302	8,570	13,570	1,730	25,172
	Number	2	68	10	5	85
	Rate	153.6	793.5	73.7	289.0	337.7
	Ratio (1 in X)	651	126	1,357	346	296
50-59	Population	918	8,671	18,056	1,576	29,221
	Number	***	80	14	***	101
	Rate	***	922.6	77.5	***	345.6
	Ratio (1 in X)	***	108	1,290	***	289
60+	Population	714	9,027	26,455	1,747	37,943
	Number	***	35	2	***	43
	Rate	***	387.7	7.6	***	113.3
	Ratio (1 in X)	***	258	13,228	***	882
Total Females by Race/Ethnicity	Population	9,663	55,204	108,837	12,918	186,622
	Number	9	233	33	18	293
	Rate	93.1	422.1	30.3	139.3	157.0
	Ratio (1 in X)	1,074	237	3,298	718	637

Section VIII – HIV Exposure Category

Figure 11 – Proportion of Total People Aged 13+ Living with Diagnosed HIV, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2018, Reported through June 30, 2019



Note. Other exposure category and perinatal transmission not shown (<1 percent). Multiple imputation was used to estimate and adjust for missing transmission category.

Table 16 – Reported HIV Diagnoses, Among People Aged 13+ During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2019

Estimated or Reported Exposure Category	No.	% of Total	Reported HIV Diagnoses Among People Aged 13+				
			Linked to Care		Late HIV Diagnoses f%	First CD4 Test Result	
			% 1 mo.	% 3 mo.		% with Test	Median Count
Male-to-male Sexual Contact (MSM)	18	58.3%	85.1%	96.6%	***	96.6%	463
Injection Drug Use (IDU)	0	0.0%	--	--	--	--	--
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	0	0.0%	--	--	--	--	--
Heterosexual Contact (HET)	12	40.3%	90.1%	98.3%	***	98.3%	497
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	30	100.0%	86.7%	96.7%	***	96.7%	497

Male Estimated or Reported Exposure Category							
Male-to-male Sexual Contact (MSM)	18	70.0%	85.1%	96.6%	***	96.6%	463
Injection Drug Use (IDU)	0	0.0%	--	--	--	--	--
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	0	0.0%	--	--	--	--	--
Heterosexual Contact (HET)	7	28.8%	83.3%	97.2%	***	97.2%	420
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	25	100.0%	84.0%	96.0%	***	96.0%	460

Female Estimated or Reported Exposure Category							
Injection Drug Use (IDU)	0	0.0%	--	--	--	--	--
Heterosexual Contact (HET)	5	98.0%	100.0%	100.0%	0.0%	100.0%	672
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	5	100.0%	100.0%	100.0%	0.0%	100.0%	672

Note. Data for 2018 are preliminary because they are based on a 6-month reporting delay and should not be used to assess trends. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Expansive People Supplement.

*** Data withheld due to low population counts and/or small numbers

Table 17 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2019

Estimated or Reported Exposure Category	Total People Aged 13+ Living with Diagnosed HIV	
	No.	% of Total
Male-to-male Sexual Contact (MSM)	394	45.7%
Injection Drug Use (IDU)	80	9.3%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	21	2.5%
Heterosexual Contact (HET)	357	41.5%
Perinatal Transmission	7	0.8%
Other Exposure	1	0.1%
No Estimated or Reported Exposure	1	0.1%
Total	861	100.0%
Male Estimated or Reported Exposure Category		
Male-to-male Sexual Contact (MSM)	394	69.1%
Injection Drug Use (IDU)	44	7.7%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	21	3.7%
Heterosexual Contact (HET)	108	19.0%
Perinatal Transmission	2	0.4%
Other Exposure	0	0.0%
No Estimated or Reported Exposure	1	0.2%
Total	570	100.0%
Female Estimated or Reported Exposure Category		
Injection Drug Use (IDU)	36	12.5%
Heterosexual Contact (HET)	249	85.5%
Perinatal Transmission	5	1.7%
Other Exposure	1	0.3%
No Estimated or Reported Exposure	0	0.0%
Total	291	100.0%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Expansive People Supplement.

Table 18 – People Aged 13+ Living with Diagnosed HIV by Estimated or Reported Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2018, and Reported through June 30, 2019

Estimated or Reported Exposure Category	Total People Aged 13+ Living with Diagnosed HIV					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total	No.	% of Total	No.	% of Total
Male-to-male Sexual Contact (MSM)	10	35.0%	261	41.9%	109	64.2%
Injection Drug Use (IDU)	5	16.1%	55	8.9%	13	7.7%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	3	8.9%	12	2.0%	7	3.9%
Heterosexual Contact (HET)	11	40.0%	285	45.8%	41	24.2%
Perinatal Transmission	0	0.0%	7	1.1%	0	0.0%
Other Exposure	0	0.0%	1	0.2%	0	0.0%
No Estimated or Reported Exposure	0	0.0%	1	0.2%	0	0.0%
Total	29	100.0%	622	100.0%	170	100.0%
Male Estimated or Reported Exposure Category						
Male-to-male Sexual Contact (MSM)	10	51.6%	261	66.6%	109	79.7%
Injection Drug Use (IDU)	2	7.9%	33	8.3%	6	4.7%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	3	13.2%	12	3.1%	7	4.8%
Heterosexual Contact (HET)	5	27.4%	83	21.2%	15	10.8%
Perinatal Transmission	0	0.0%	2	0.5%	0	0.0%
Other Exposure	0	0.0%	0	0.0%	0	0.0%
No Estimated or Reported Exposure	0	0.0%	1	0.3%	0	0.0%
Total	20	100.0%	392	100.0%	137	100.0%
Female Estimated or Reported Exposure Category						
Injection Drug Use (IDU)	3	33.3%	23	9.9%	7	20.3%
Heterosexual Contact (HET)	6	66.7%	202	87.5%	26	79.7%
Perinatal Transmission	0	0.0%	5	2.2%	0	0.0%
Other Exposure	0	0.0%	1	0.4%	0	0.0%
No Estimated or Reported Exposure	0	0.0%	0	0.0%	0	0.0%
Total	9	100.0%	231	100.0%	33	100.0%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Expansive People Supplement.

Table 19 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Estimated or Reported Exposure Category, Reported through June 30, 2019

Estimated or Reported Exposure Category	Total People Aged 13+ with Living Diagnosed HIV							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male-to-male Sexual Contact (MSM)	394	307	78.0%	622	6.9%	11.3%	18.1%	63.6%
Injection Drug Use (IDU)	80	62	77.6%	576	6.1%	18.5%	16.1%	59.3%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	21	18	83.1%	582	13.0%	12.4%	15.3%	59.3%
Heterosexual Contact (HET)	357	301	84.3%	696	8.5%	9.8%	14.2%	67.5%
Perinatal Transmission	7	5	71.4%	496	20.0%	0.0%	40.0%	40.0%
Other Exposure	1	***	***	***	***	***	***	***
No Estimated or Reported Exposure	1	***	***	***	***	***	***	***
Total	861	695	80.7%	638	7.8%	11.5%	16.3%	64.5%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment.

Table 20 – Viral Load Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Estimated or Reported Exposure Category, Reported through June 30, 2019

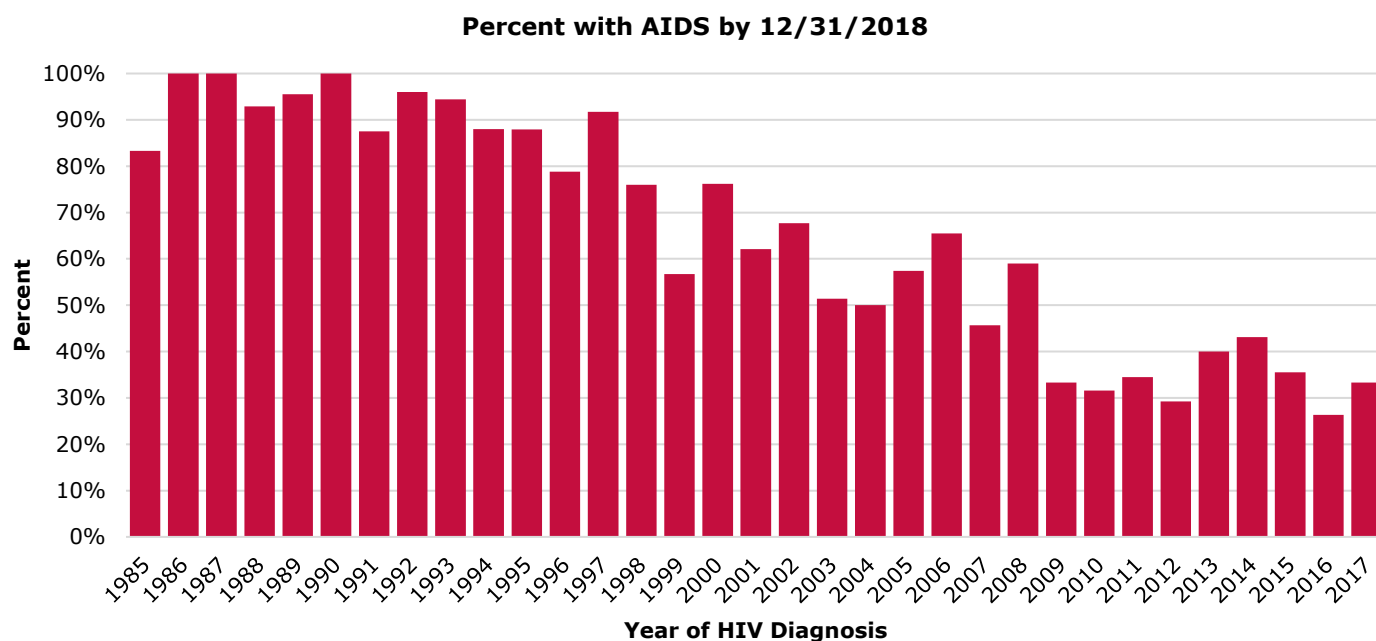
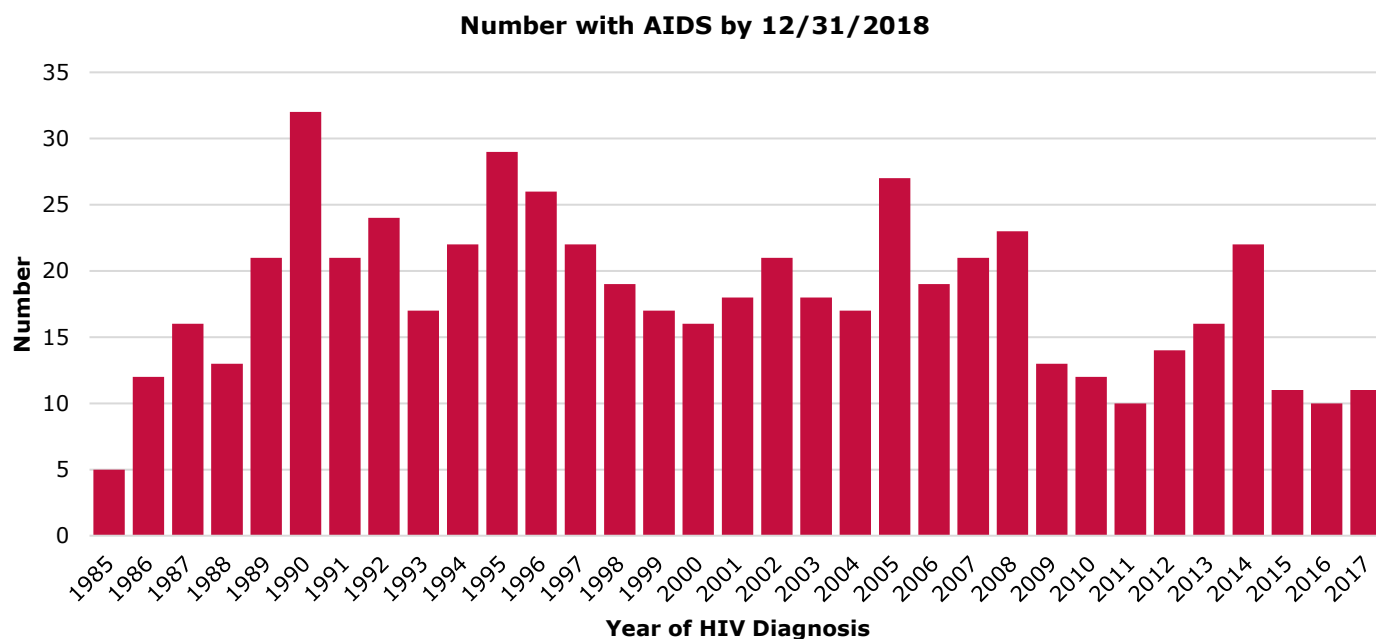
Estimated or Reported Exposure Category	Total People Aged 13+ with Living Diagnosed HIV				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male-to-male Sexual Contact (MSM)	394	308	78.3%	89.5%	7,417
Injection Drug Use (IDU)	80	62	77.8%	85.7%	1,720
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	21	18	82.2%	82.3%	144,000
Heterosexual Contact (HET)	357	301	84.3%	89.2%	4,780
Perinatal Transmission	7	6	85.7%	50.0%	104,000
Other Exposure	1	***	***	***	***
No Estimated or Reported Exposure	1	***	***	***	***
Total	861	697	81.0%	88.4%	4,375

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median unsuppressed is weighted based on statistical adjustment.

Section IX – Disease Progression and Mortality

Figure 12 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2017, Reported through June 30, 2019

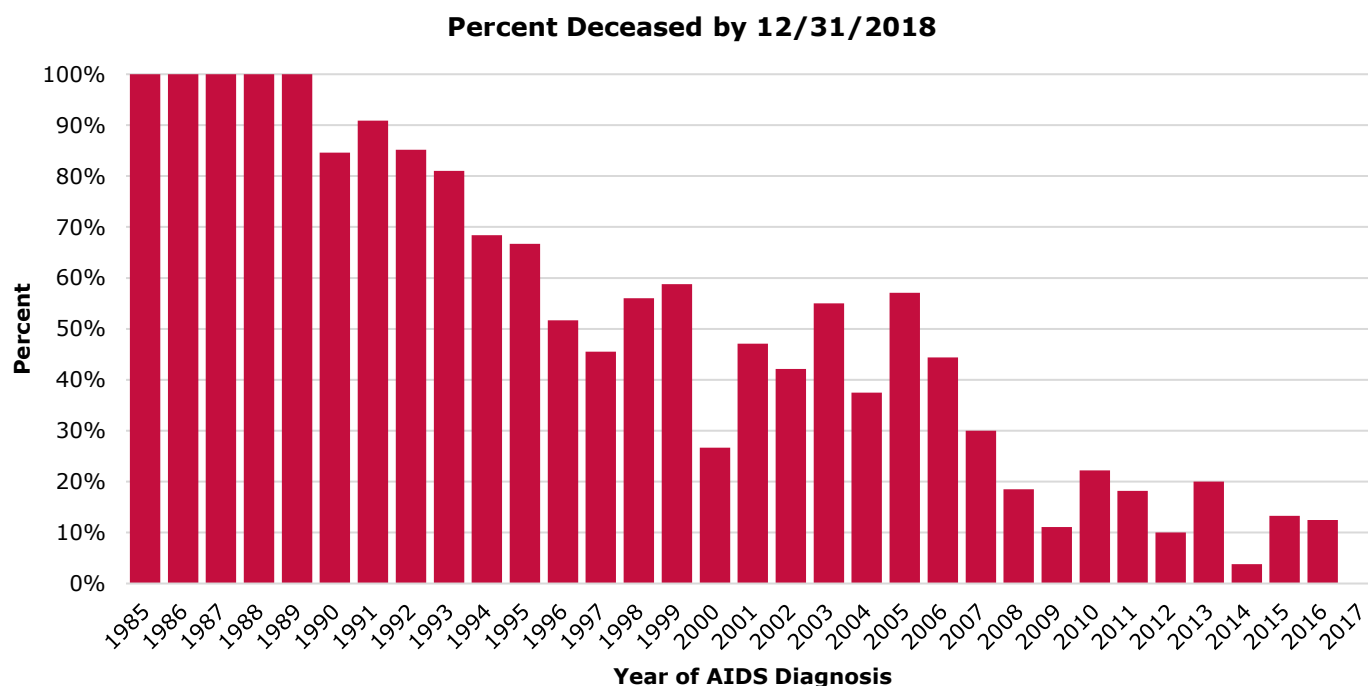
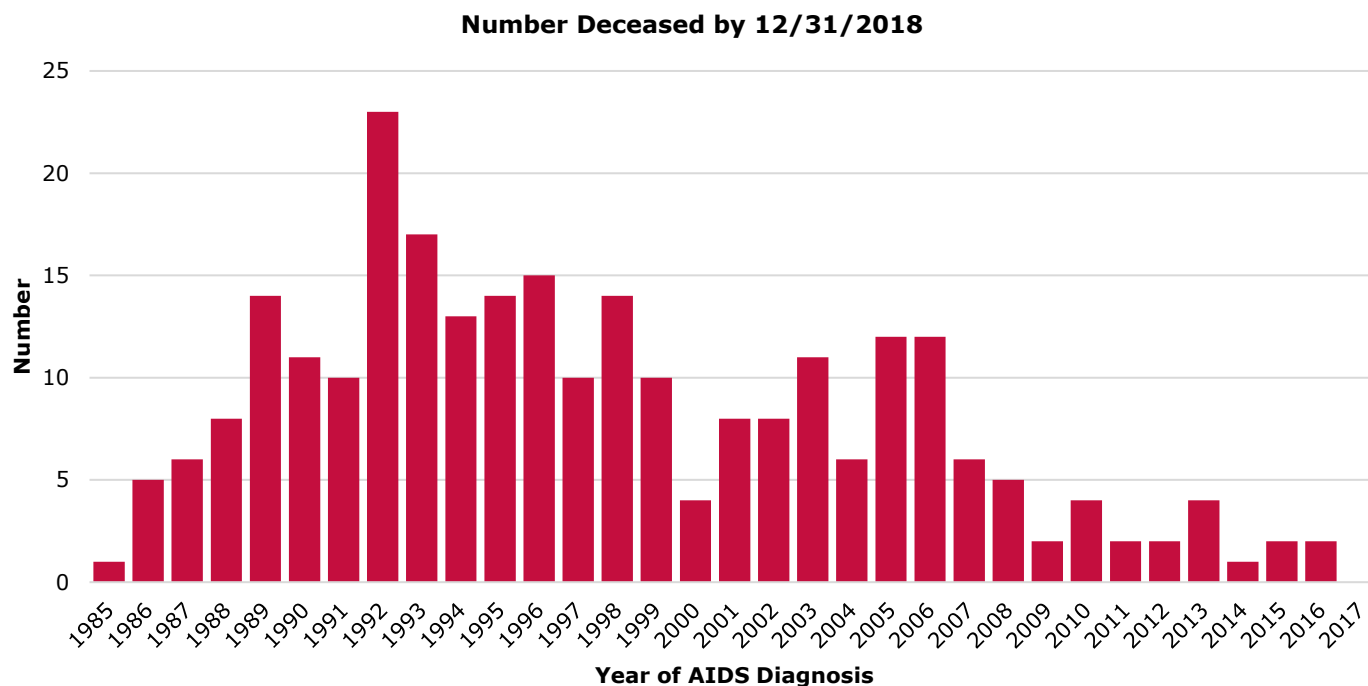
Number of People Aged 13+ with Diagnosed HIV, Age 13+ at HIV Diagnosis, (Reported HIV Diagnoses Among People Aged 13+), Number of People Aged 13+ with Diagnosed HIV with an AIDS Diagnosis by December 31, 2018 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Reported HIV Diagnoses with a Reported AIDS Diagnosis Among People Aged 13+ by December 31, 2018, the Average Years from HIV Diagnosis to AIDS Diagnosis for People with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported HIV Diagnoses with a Reported AIDS Diagnosis Among People Aged 13+ at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2017, Reported through June 30, 2019



Reported HIV Diagnoses Among People Aged 13+									
Year of HIV Diagnosis	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis				
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years	
<1985	2	2	100.0%	10.0	50.0%	50.0%	50.0%	50.0%	
1985	6	5	83.3%	9.8	16.7%	16.7%	33.3%	50.0%	
1986	12	12	100.0%	8.5	33.3%	33.3%	41.7%	58.3%	
1987	16	16	100.0%	6.0	37.5%	37.5%	56.3%	87.5%	
1988	14	13	92.9%	2.7	57.1%	57.1%	71.4%	92.9%	
1989	22	21	95.5%	2.2	59.1%	59.1%	81.8%	90.9%	
1990	32	32	100.0%	4.7	37.5%	46.9%	65.6%	87.5%	
1991	24	21	87.5%	3.4	50.0%	54.2%	62.5%	79.2%	
1992	25	24	96.0%	1.5	72.0%	72.0%	88.0%	92.0%	
1993	18	17	94.4%	1.4	77.8%	83.3%	88.9%	88.9%	
1994	25	22	88.0%	2.3	64.0%	72.0%	72.0%	80.0%	
1995	33	29	87.9%	3.5	45.5%	48.5%	63.6%	78.8%	
1996	33	26	78.8%	2.5	48.5%	57.6%	66.7%	72.7%	
1997	24	22	91.7%	2.6	62.5%	66.7%	70.8%	83.3%	
1998	25	19	76.0%	1.2	60.0%	68.0%	68.0%	76.0%	
1999	30	17	56.7%	2.2	40.0%	43.3%	46.7%	50.0%	
2000	21	16	76.2%	4.6	28.6%	33.3%	57.1%	66.7%	
2001	29	18	62.1%	0.4	58.6%	58.6%	62.1%	62.1%	
2002	31	21	67.7%	2.8	41.9%	45.2%	54.8%	64.5%	
2003	35	18	51.4%	1.2	40.0%	40.0%	45.7%	51.4%	
2004	34	17	50.0%	1.5	41.2%	44.1%	44.1%	47.1%	
2005	47	27	57.4%	2.1	40.4%	42.6%	46.8%	51.1%	
2006	29	19	65.5%	1.0	55.2%	55.2%	58.6%	65.5%	
2007	46	21	45.7%	2.1	28.3%	30.4%	39.1%	43.5%	
2008	39	23	59.0%	0.9	48.7%	51.3%	53.8%	59.0%	
2009	39	13	33.3%	1.7	20.5%	23.1%	28.2%	--	
2010	38	12	31.6%	0.8	23.7%	26.3%	31.6%	--	
2011	29	10	34.5%	1.0	24.1%	31.0%	31.0%	--	
2012	48	14	29.2%	1.0	22.9%	27.1%	27.1%	--	
2013	40	16	40.0%	1.3	27.5%	27.5%	40.0%	--	
2014	51	22	43.1%	0.8	35.3%	35.3%	--	--	
2015	31	11	35.5%	0.8	25.8%	32.3%	--	--	
2016	38	10	26.3%	0.5	21.1%	26.3%	--	--	
2017	33	11	33.3%	0.1	33.3%	--	--	--	
Total	999	597	59.8%	2.3	40.0%	43.1%	49.9%	56.0%	

**Figure 13 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2017,
Reported through June 30, 2019**

Number of People Aged 13+ with Diagnosed HIV, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by December 31, 2017 (Reported AIDS Diagnoses), Number of Reported AIDS Diagnosis Among People Aged 13+ Reported to Have Died of Any Cause by December 31, 2018 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) Among People Aged 13+ by December 31, 2018, the Average Years from AIDS Diagnosis to Death for People that have Died, and the Percent by Year of AIDS Diagnosis of Reported AIDS Diagnoses Among People Aged 13+ Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2017, Reported through June 30, 2019



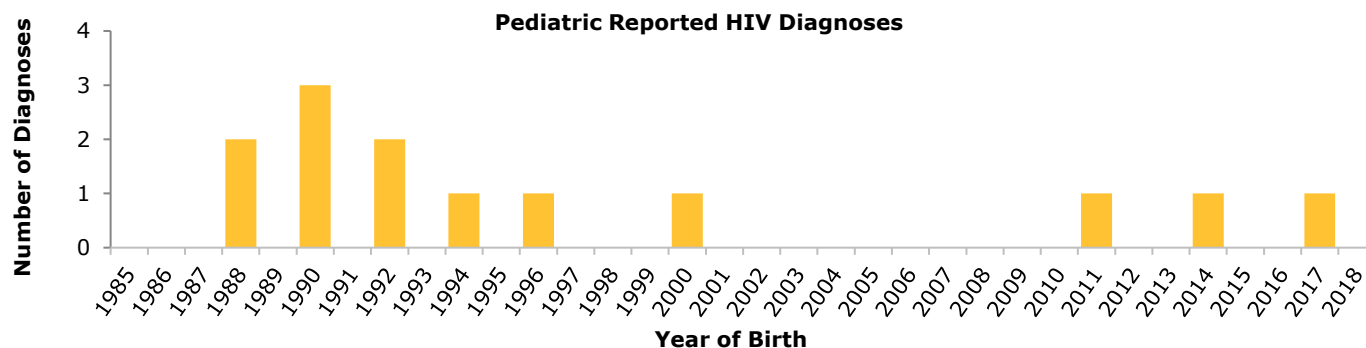
Year of AIDS Diagnosis	Reported AIDS Diagnoses Among People Aged 13+							
	No.	Reported AIDS Deaths		Mean Years from AIDS to Death	Percent Alive by Years After AIDS Diagnosis			
		No.	% Deceased		1 Year	2 Years	5 Years	10 Years
<1985	1	1	100.0%	0.0	0.0%	0.0%	0.0%	0.0%
1985	1	1	100.0%	2.9	100.0%	100.0%	0.0%	0.0%
1986	5	5	100.0%	1.1	40.0%	20.0%	0.0%	0.0%
1987	6	6	100.0%	2.5	50.0%	16.7%	16.7%	16.7%
1988	8	8	100.0%	2.3	62.5%	50.0%	12.5%	0.0%
1989	14	14	100.0%	2.1	85.7%	50.0%	0.0%	0.0%
1990	13	11	84.6%	3.6	76.9%	61.5%	38.5%	23.1%
1991	11	10	90.9%	2.3	81.8%	54.5%	18.2%	9.1%
1992	27	23	85.2%	3.0	85.2%	59.3%	22.2%	22.2%
1993	21	17	81.0%	4.4	76.2%	52.4%	33.3%	28.6%
1994	19	13	68.4%	3.2	89.5%	52.6%	47.4%	42.1%
1995	21	14	66.7%	3.3	76.2%	57.1%	52.4%	42.9%
1996	29	15	51.7%	4.9	86.2%	79.3%	72.4%	58.6%
1997	22	10	45.5%	6.2	81.8%	81.8%	81.8%	63.6%
1998	25	14	56.0%	6.8	84.0%	84.0%	80.0%	60.0%
1999	17	10	58.8%	6.9	88.2%	88.2%	70.6%	58.8%
2000	15	4	26.7%	9.2	100.0%	100.0%	86.7%	86.7%
2001	17	8	47.1%	5.1	88.2%	82.4%	70.6%	64.7%
2002	19	8	42.1%	2.4	84.2%	78.9%	63.2%	57.9%
2003	20	11	55.0%	5.2	85.0%	80.0%	70.0%	65.0%
2004	16	6	37.5%	3.7	81.3%	75.0%	75.0%	68.8%
2005	21	12	57.1%	4.3	81.0%	76.2%	66.7%	42.9%
2006	27	12	44.4%	2.5	81.5%	81.5%	63.0%	55.6%
2007	20	6	30.0%	3.7	85.0%	85.0%	80.0%	75.0%
2008	27	5	18.5%	3.3	92.6%	92.6%	85.2%	81.5%
2009	18	2	11.1%	1.7	94.4%	94.4%	88.9%	--
2010	18	4	22.2%	2.7	88.9%	83.3%	83.3%	--
2011	11	2	18.2%	2.1	90.9%	90.9%	81.8%	--
2012	20	2	10.0%	5.6	100.0%	100.0%	95.0%	--
2013	20	4	20.0%	1.0	85.0%	80.0%	80.0%	--
2014	26	1	3.8%	0.3	96.2%	96.2%	--	--
2015	15	2	13.3%	1.8	93.3%	93.3%	--	--
2016	16	2	12.5%	1.0	93.8%	87.5%	--	--
2017*	24	0	0.0%	--	100.0%	--	--	--
Total	590	263	44.6%	3.8	86.1%	78.1%	67.3%	60.8%

*2017 AIDS deaths are preliminary

Section X – Pediatrics

Figure 14 – Trends in Reported HIV Diagnoses Among People Aged <13, 1985-2018, Reported through June 30, 2019

Number of Pediatric HIV Diagnoses, Age <13 at HIV Diagnosis, (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Children with Diagnosed HIV, Age <13 at HIV Diagnosis, and Not Reported to have Died as of December 31st of Each Year (Total Living Pediatric Diagnoses) from 1985 through 2018, as Reported by Name through June 30, 2019



Year	Pediatric Reported HIV Diagnoses				Total Living Pediatric Diagnoses Alive on December 31st of Each Year
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	
<1985	1	0	0	0	--
1985	0	0	0	0	0
1986	0	0	0	0	0
1987	0	0	0	0	0
1988	2	1	1	0	0
1989	0	0	0	0	0
1990	3	2	0	0	2
1991	0	0	1	0	1
1992	2	1	0	0	2
1993	0	0	0	0	2
1994	1	3	3	0	4
1995	0	0	0	1	3
1996	1	1	1	1	4
1997	0	0	0	0	4
1998	0	0	1	0	4
1999	0	0	0	1	3
2000	1	2	0	0	5
2001	0	0	0	0	6
2002	0	0	0	0	6
2003	0	0	0	0	6
2004	0	0	0	0	6
2005	0	0	0	0	6
2006	0	0	0	0	6
2007	0	1	0	0	7
2008	0	0	0	0	7
2009	0	0	0	0	7
2010	0	0	0	1	6
2011	1	1	1	0	7
2012	0	0	0	0	7
2013	0	0	0	1	6
2014	1	1	1	0	7
2015	0	0	0	0	7
2016	0	0	0	0	7
2017	1	1	0	0	8
2018	0	0	0	0	8
Total	14	14	9	5	--

Table 21 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Current Residence, Reported through June 30, 2019

Jurisdiction of Current Residence	Total People Aged <13 Living with Diagnosed HIV	
	No.	% of Total
Calvert	0	0.0%
Charles	4	100.0%
Saint Mary's	0	0.0%
Total	4	100.0%

Table 22 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2018, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2019

Demographic Characteristic	Total People Aged <13 Living with Diagnosed HIV	
	No.	% of Total
Sex at Birth		
Male	2	50.0%
Female	2	50.0%
Race/Ethnicity		
Hispanic	0	0.0%
Non-Hispanic	4	100.0%
American Indian/Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	4	100.0%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	0	0.0%
Multiracial/Other	0	0.0%
Total	4	100.0%

Glossary of Terms

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Age on [date]: Age group of people living with diagnosed HIV on the specified date.

Another Gender Identity: All other gender identities or gender expressions.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of people living with diagnosed HIV with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent CD4 test result.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent with Test: Percent of reported HIV diagnoses among people aged 13+ with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Gender Expression: People's outward presentation of their gender which may or may not conform to socially defined behaviors and characteristics typically associated with being either masculine or feminine.

Gender Identity: Refers to one's internal understanding of one's own gender, or the gender with which a person identifies.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 3 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year and not reported to have died as of December 31st of the specified year.

People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis: Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for people living with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median Count: Median CD4 count (cells per microliter), among total people aged 13+ living with diagnosed HIV, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among people aged 13+ living with diagnosed HIV of the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Percent Change: The percent change in number of total people aged 13+ living with diagnosed HIV from residence at diagnosis to current residence.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 3 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Perinatal HIV Transmission Percent: Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures by year of birth.

Perinatal HIV Transmission Rate: Number of confirmed perinatal HIV transmissions divided by the number of live births multiplied by 100,000 by year of birth.

Population: Population estimate for July 1, 2018.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2018.

Rate: Number of people living with diagnosed HIV divided by the population and multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 person living with diagnosed HIV in the population, or 1 person living with diagnosed HIV in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported AIDS Diagnoses Among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Reported HIV Diagnoses Among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Retained in HIV Care: HIV diagnosed with a reported CD4 or viral load test result performed or reported antiretroviral use in the specified year.

Suppressed Viral Load: HIV diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Total People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year not reported to have died as of December 31st of the specified year.

Total People Aged <13 Living with Diagnosed HIV: Reported HIV diagnosis, age less than 13 years at HIV diagnosis and not reported to have died as of December 31st of the specified year.

Total People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of December 31st of the specified year.

Transgender Female: A person whose sex assigned at birth is male but who identify as a woman.

Transgender Male: A person whose sex assigned at birth is female but who identify as a man.

Viral Load With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result.

Women of Childbearing Age Living with Diagnosed HIV: Reported HIV diagnoses among women of childbearing age (13-49 years old).